

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: December 6, 2004, 13:34:19 ; Search time 195.614 Seconds
(without alignment) 278.934 Million cell updates/sec

Title: US-08-836-455-4

Perfect score: 816
Sequence: 1 MECSWVFLFLSLTTGVHSD.....TVSSAKTTPPVPLVPGSL 153

Scoring table: BLOSUM62
Gap 10.0, Gapext 0.5

Searched: 1582122 seqs, 356523098 residues

Total number of hits satisfying chosen parameters: 1582122

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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Published Applications AA:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysts of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	816	100.0	153	9	US-09-861-294-4
2	816	100.0	153	14	US-10-367-506-4
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4	574.5	70.4	468	15	US-10-704-352-7
5	574.5	70.4	468	15	US-10-704-071-7
6	574.5	70.4	468	16	US-10-682-845-38
7	574.5	70.4	468	17	US-10-703-963-7
8	565	69.2	467	17	US-10-742-405-12
9	560.5	68.7	464	14	US-10-216-484-9
10	560.5	68.7	464	14	US-10-384-933-9
11	554.5	68.0	468	9	US-09-903-327A-6
12	554.5	68.0	466	9	US-09-903-327A-2
13	554.5	68.0	493	9	US-09-903-327A-13

14	554.5	68.0	510	9	US-09-903-327A-12	Sequence 12, Appl
15	554.5	68.0	597	9	US-09-903-327A-11	Sequence 11, Appl
16	554.5	68.0	613	9	US-09-903-327A-14	Sequence 14, Appl
17	552.5	67.7	136	14	US-10-160-232-88	Sequence 88, Appl
18	543	66.5	238	14	US-10-336-210-3	Sequence 3, Appl
19	543	66.5	272	14	US-10-336-210-7	Sequence 7, Appl
20	540	66.2	135	14	US-10-244-821-91	Sequence 91, Appl
21	539.5	66.1	180	9	US-09-748-960-6	Sequence 6, Appl
22	536	65.7	152	16	US-10-642-120-2	Sequence 2, Appl
23	536	65.7	152	16	US-10-642-060-2	Sequence 2, Appl
24	536	65.7	152	16	US-10-642-122-2	Sequence 2, Appl
25	536	65.7	152	16	US-10-642-124-2	Sequence 2, Appl
26	536	65.7	152	16	US-10-621-269-2	Sequence 2, Appl
27	536	65.7	152	16	US-10-620-850-2	Sequence 2, Appl
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29	536	65.7	152	17	US-10-642-117-2	Sequence 2, Appl
30	536	65.7	152	17	US-10-642-119-2	Sequence 2, Appl
31	536	65.7	152	17	US-10-642-099-2	Sequence 2, Appl
32	536	65.7	237	14	US-10-336-210-2	Sequence 2, Appl
33	536	65.7	271	14	US-10-336-210-6	Sequence 6, Appl
34	530	65.0	139	10	US-09-268-921-105	Sequence 105, App
35	530	65.0	139	10	US-09-509-098-4	Sequence 4, Appl
36	530	65.0	139	14	US-10-218-253-105	Sequence 105, App
37	528	64.7	139	10	US-09-269-921-126	Sequence 126, App
38	528	64.7	139	10	US-09-509-098-98	Sequence 98, Appl
39	528	64.7	139	13	US-10-006-773-13	Sequence 13, Appl
40	528	64.7	139	14	US-10-218-253-126	Sequence 126, App
41	522.5	64.0	140	10	US-10-096-928-6	Sequence 6, Appl
42	522.5	64.0	140	14	US-10-096-964-6	Sequence 6, Appl
43	522.5	64.0	164	17	US-10-471-475A-23	Sequence 23, Appl
44	522	64.0	135	14	US-10-389-156-60	Sequence 60, Appl
45	522	64.0	135	15	US-10-389-417-60	Sequence 60, Appl

ALIGNMENTS

RESULT 1
US-09-861-294-4
Sequence 4, Application US/09861294
Patent No. US20020098190A1
GENERAL INFORMATION:
APPLICANT: Malaya CHATTERJEE
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR TREATING
FILE REFERENCE: 304142000620
CURRENT APPLICATION NUMBER: US/09/861,294
CURRENT FILING DATE: 2001-05-17
PRIOR APPLICATION NUMBER: 60/049,540
PRIOR FILING DATE: 1997-06-13
PRIOR APPLICATION NUMBER: 09/096,244
PRIOR FILING DATE: 1998-06-11
NUMBER OF SEQ ID NOS: 38
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 4
LENGTH: 153
TYPE: PRT
ORGANISM: Mus musculus
FEATURE:
NAME/KEY: SIGNAL
LOCATION: (1)...(15)
US-09-861-294-4

Query Match 100.0%; Score 816; DB 9; Length 153;
Best Local Similarity 100.0%; Pred. No. 7.8e-61;
Matches 153; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 1 MECSWVFLFLSLTTGVHSDAYIQSGAELVRSASVSKASGTYLTSYNNHWYKQTP 60
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Db 61 GGGLEWIGNIFPGNGDITVYNOKEFGKASLTADTSSSTAYMOISLTSBDSAVYFCARGNW 120
Qy 121 EGALDYWGQGTSTVVSAAKTPPPVYPLVPGSL 153
Db 121 EGALDYWGQGTSTVVSAAKTPPPVYPLVPGSL 153

RESULT 2

US-10-367-506-4
Sequence 4, Application US/10367506
Publication No. US20030152575A1
GENERAL INFORMATION:
APPLICANT: Malaya CHATTERJEE
APPLICANT: Kenneth A. POON
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR TREATING
FILE REFERENCE: 304142000620
CURRENT APPLICATION NUMBER: US/10/367,506
PRIOR FILING DATE: 2003-02-13
PRIOR APPLICATION NUMBER: US/09/861,294
PRIOR FILING DATE: 2001-05-17
PRIOR APPLICATION NUMBER: 60/049,540
PRIOR FILING DATE: 1997-06-13
PRIOR APPLICATION NUMBER: 09/096,244
NUMBER OF SEQ ID NOS: 38
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 4
LENGTH: 153
TYPE: PRT
ORGANISM: Mus musculus
FEATURE:
NAME/KEY: SIGNAL
LOCATION: (1)...(19)
US-10-367-506-4

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Best Local Similarity 100.0%; Pred. No. 7,8e-61;
Matches 153; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy 121 EGALDYWGQGTSTVVSAAKTPPPVYPLVPGSL 153
Db 121 EGALDYWGQGTSTVVSAAKTPPPVYPLVPGSL 153

RESULT 3

US-09-795-515-7
Sequence 7, Application US/09795515
Publication No. US20030039645A1
GENERAL INFORMATION:
APPLICANT: Adair, John R.
APPLICANT: Athwal, Diljeet S.
TITLE OF INVENTION: Humanised Antibodies
NUMBER OF SEQUENCES: 30
CORRESPONDENCE ADDRESS:
ADDRESSEE: Woodcock Washburn Kurtz Mackiewicz & No. US20030039645A1
STREET: One Liberty Place - 46th Floor
CITY: Philadelphia
STATE: PA
COUNTRY: USA
ZIP: 19103
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/795,515
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/846,658
FILING DATE: 01-MAY-1997
ATTORNEY/AGENT INFORMATION:
NAME: Trujillo, Doreen Yatto
REGISTRATION NUMBER: 35,719
TELEPHONE: (215) 568-3100
TELEFAX: (215) 568-3439
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 468 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: Protein
US-09-795-515-7

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Best Local Similarity 74.8%; Pred. No. 5e-40;
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Db 121 DHYCLDYWGQGTSTVVSAAKTPPPVYPLAP 151

RESULT 4

US-10-704-352-7
Sequence 7, Application US/10704352
Publication No. US20040071693A1
GENERAL INFORMATION:
APPLICANT: Adair, John R.
APPLICANT: Athwal, Diljeet S.
TITLE OF INVENTION: Humanised Antibodies
NUMBER OF SEQUENCES: 30
CORRESPONDENCE ADDRESS:
ADDRESSEE: Woodcock Washburn Kurtz Mackiewicz & Norris
STREET: One Liberty Place - 46th Floor
CITY: Philadelphia
STATE: PA
COUNTRY: USA
ZIP: 19103
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/704,352
FILING DATE: 07-Nov-2003
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/795,515
FILING DATE: 28-FEB-2001
APPLICATION NUMBER: 08/846,658
FILING DATE: 01-MAY-1997

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OM protein - protein search, using sw model

Run on: December 6, 2004, 13:29:00 ; Search time 16.4295 Seconds
(Without alignments)
617.586 Million cell updates/sec

Title: US-08-836-455-4

Perfect score: 816
Sequence: 1 MEC5WVFLFLSLITGVHSQ.....TVSSAKTTPPVPLVPGSL 153

Scoring table: BLOSUM62
Gapop 10.0, Gapext 0.5

Searched: 478139 seqs, 66318000 residues

Total number of hits satisfying chosen parameters: 478139

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

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12	535	65.6	235	3	US-08-232-246A-19
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21	530	65.0	139	4	US-09-269-921-105
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29	522	64.0	135	1	US-08-474-040-69	Sequence 69, App1
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33	520.5	63.8	219	4	US-09-254-180C-131	Sequence 131, App1
34	520.5	63.8	219	4	US-09-254-180C-181	Sequence 181, App1
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37	516.5	63.3	150	2	US-08-400-115-2	Sequence 153, App1
38	512	62.7	137	4	US-09-647-468-153	Sequence 153, App1
39	512	62.7	137	4	US-09-647-468-154	Sequence 154, App1
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41	511.5	62.7	445	1	US-08-353-400-33	Sequence 33, App1
42	511	62.6	139	1	US-08-137-117D-35	Sequence 35, App1
43	511	62.6	139	2	US-08-436-717-35	Sequence 35, App1
44	511	62.6	139	2	US-08-656-586-4	Sequence 4, App1
45	510	62.5	137	1	US-08-392-419-2	Sequence 2, App1

ALIGNMENTS

RESULT 1
US-09-096-244-4

Sequence 4, Application US/09096244

Patent No. 6274143

GENERAL INFORMATION:

APPLICANT: Chatterjee, Malaya

APPLICANT: Foon, Kenneth A.

TITLE OF INVENTION: METHODS OF DELAYING DEVELOPMENT OF

TITLE OF INVENTION: HMGs-ASSOCIATED TUMORS USING ANTI-IDIOTYPE ANTIBODY 11D10

NUMBER OF SEQUENCES: 4

CORRESPONDENCE ADDRESS:

ADDRESS: MORRISON & FORSTER

STREET: 755 PAGE MILL ROAD

CITY: PALO ALTO

STATE: CA

COUNTRY: USA

ZIP: 94304-1018

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

OPERATING SYSTEM: IBM PC compatible

SOFTWARE: Patent Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/096,244

FILING DATE:

CLASSIFICATION:

ATTORNEY/AGENT INFORMATION:

NAME: Polizzi, Catherine M.

REGISTRATION NUMBER: 40,130

REFERENCE/DOCKET NUMBER: 30414-20006.00

TELECOMMUNICATION INFORMATION:

TELEPHONE: (650) 813-5600

TELEFAX: (650) 494-0792

TELEX: 706141

INFORMATION FOR SEQ ID NO: 4:

SEQUENCE CHARACTERISTICS:

LENGTH: 153 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

US-09-096-244-4

Query Match 100.0%; Score 816; DB 3; Length 153;
Best local similarity 100.0%; Pred. No. 9.8e-61;
Matches 153; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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1 MEC5WVFLFLSLITGVHSQAVLQSGALVSSGVSKSCASGYTLTSYNNHWVKQTP 60

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Dd 61 GGGLEMTGNI FPGNGTYYNOK EKKA SLTADTSSSTLYWMO ISSLTSEDSA VYFCARGNW 120

QY 121 EGALDYMGGSTSYTUSAAKTPPPYPLVPGSL 153

Dd 121 EGALDYMGGSTSYTUSAAKTPPPYPLVPGSL 153

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1  RESULT 2
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3  ; Sequence 7, Application US/08303569B
4  ; Patent No. 5859205
5  ;
6  ; GENERAL INFORMATION:
7  ; APPLICANT: Adair, John R.
8  ; APPLICANT: Athwal, Diljeet S.
9  ; APPLICANT: Emtage, John S.
10 ; TITLE OF INVENTION: Humanised Antibodies
11 ; NUMBER OF SEQUENCES: 31
12 ;
13 ; CORRESPONDENCE ADDRESS:
14 ; ADDRESSEE: Woodcock Washburn Kurtz Mackiewicz & No. 5859205Strid
15 ; STREET: One Liberty Place - 46th Floor
16 ; CITY: Philadelphia
17 ; STATE: PA
18 ; COUNTRY: USA
19 ; ZIP: 19103
20 ;
21 ; COMPUTER READABLE FORM:
22 ; MEDIUM TYPE: Floppy disk
23 ; COMPUTER: IBM PC compatible
24 ; OPERATING SYSTEM: PC-DOS/MS-DOS
25 ; SOFTWARE: PatentIn Release #1.0, Version #1.25
26 ; CURRENT APPLICATION DATA:
27 ; APPLICATION NUMBER: US/08/303,569B
28 ; FILING DATE: 07-SEP-1994
29 ; CLASSIFICATION:
30 ; ATTORNEY/AGENT INFORMATION:
31 ; NAME: Trujillo, Doreen Yatro
32 ; REGISTRATION NUMBER: 35,719
33 ; REFERENCE/DOCKET NUMBER: CARP-0032
34 ; TELECOMMUNICATION INFORMATION:
35 ; TELEPHONE: (215) 568-3100
36 ; TELEFAX: (215) 568-3439
37 ; INFORMATION FOR SEQ ID NO: 7:
38 ; SEQUENCE CHARACTERISTICS:
39 ; LENGTH: 468 amino acids
40 ; TYPE: amino acid
41 ; TOPOLOGY: linear
42 ;
43 ; MOLECULE TYPE: protein
44 ;
45 ; US-08-303-569B-7

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Query Match	70.4%;	Score 574.5;	DB 2;	Length 468;
Best Local Similarity	74.8%;	Pred. No. 4e-40;		
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QY	61	GOGLIEWIGNIIFGNGDITYYNQKFKGKSLADTSSSTAYVQISLTSSEDSAYVFCAR-GN		119
Db	61	GOGLIEWIGINISRSRGTYYNOKFKDKATLLTDKSSSTAYVQISLTSSEDSAYVYCARYYD		120
QY	120	WEGALDYMGGQTSVTVSSSAKTTTPPVLYPVLV		150
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RESULT 3
US-08-116-247-7
; Sequence 7, Application US/08116247
; Patent No. 5929212
; GENERAL INFORMATION:
; APPLICANT: Jolliffe, Linda K.
;

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1  APPLICANT: Zivin, Robert A.
2  APPLICANT: Adair, John R..
3  APPLICANT: Athwal, Diljeet S.
4  TITLE OF INVENTION: CD3 Specific Recombinant Antibody
5  NUMBER OF SEQUENCES: 29
6  CORRESPONDENCE ADDRESS:
7  ADDRESSEE: Woodcock Washburn Kurtz Mackiewicz & No. 5929212r1s
8  STREET: One Liberty Place - 46th Floor
9  CITY: Philadelphia
10 STATE: PA
11 COUNTRY: USA
12 ZIP: 19103
13
14 COMPUTER READABLE FORM:
15 MEDIUM TYPE: Floppy disk
16 COMPUTER: IBM PC compatible
17 OPERATING SYSTEM: PC-DOS/MS-DOS
18 SOFTWARE: Patentln Release #1.0, Version #1.25
19 CURRENT APPLICATION DATA:
20 APPLICATION NUMBER: US/08/116,247
21 FILING DATE:
22 CLASSIFICATION: 435
23 PRIOR APPLICATION DATA:
24 APPLICATION NUMBER: US 07/743,377
25 FILING DATE: 10-OCT-1991
26 ATTORNEY/AGENT INFORMATION:
27 NAME: Paintlin, Francis A.
28 REGISTRATION NUMBER: 19,386
29 REFERENCE/DOCKET NUMBER: CARP-0011
30 TELECOMMUNICATION INFORMATION:
31 TELEPHONE: (215) 568-3100
32 TELEFAX: (215) 568-3439
33 INFORMATION FOR SEQ ID NO: 7:
34 SEQUENCE CHARACTERISTICS:
35 LENGTH: 468 amino acids
36 TYPE: amino acid
37 TOPOLOGY: linear
38 MOLECULE TYPE: protein
39
40 US-08-116-247-7

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	70.4%;	Score 574.5;	DB 2;	Length 468;
Query Match		Pred. No. 4e-40;		
Best Local Similarity	74.8%;	Mismatches 113;	Conservative 8;	Gaps 1
OY	1 MECSWVFELSLITTVGHSQAVYLQDSGAELVRSQASVKSCKASGYTLTSYMMHWKCP	60		
Db	1 MERHWFIPLLSLVTAGVSHSQVLQDSGAELARPGASVKSKSGSYTLFRMYHWWKRP	60		
OY	61 GGGLEIGNIIPGNDDITYNOKFEKGKSLPADTSSSTAYMOISLTSEDSAVFYCAR-GN	119		
Db	61 GGGLEIGINPSRKYNNYMKFDKATLTLLDKSSSTAYMQISLTSEDSAVFYCARYYD	120		
OY	120 MEGALDYNGOGSTSVVSASAKTTTPPVYELVP	150		
Db	121 DHYCLDYWGQGTTLLVSSAKTTAPSVYELAP	151		

RESULT 4
US-09-795-515-7
; Sequence 7, Application US/09795515
; Patent No. 6632927
; GENERAL INFORMATION:
; APPLICANT: Adair, John R.
; APPLICANT: Athwal, Diljeet S.
; APPLICANT: Emrage, John S.
; TITLE OF INVENTION: Humanised Antibodies
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Woodcock Washburn Kurtz Mackiewicz & No. 6632927/ris
; STREET: One Liberty Place - 46th Floor
; CITY: Philadelphia
; STATE: PA
; COUNTRY: USA
; ZIP: 19103

XX 19-DEC-1996; 96WO-US020757.
 PF 20-DEC-1995; 95US-00575762.
 PR 26-JAN-1996; 96US-00591965.
 PR 13-DEC-1996; 96US-00766350.
 XX (KENT) UNIV KENTUCKY.
 PA Chatterjee M, Poon KA, Chatterjee SK;
 XX WPI; 1997-341690/31.
 DR N-PSDB; AAT85150.
 XX Monoclonal anti-idiotypic antibody 11D10 - elicits immune response against
 PT human milk fat globule disease associated tumours, especially breast
 PT cancer.
 XX Claim 10; Page 94-95; 130pp; English.
 PS
 XX This polypeptide sequence comprises the heavy chain variable region (VH)
 CC of monoclonal anti-idiotypic antibody 11D10 produced by hybridoma cell
 CC line ATCC 12020. 11D10 was obtained by immunising naive mice with MC-10
 CC anti-HMG antibody to obtain an anti-idiotypic response. It elicits an
 CC immune response against a specific epitope of a high mol.wt. mucin of
 CC human milk fat globule (HMG). It induces an immunological response to
 CC HMG in mice, rabbits, monkeys and patients with advanced HMG-associated
 CC tumours. Pharmaceutical compositions and vaccines comprising 11D10, 11D10
 CC polypeptides and/or 11D10 polynucleotides (see also AAT85149-50) are
 CC claimed. Also claimed are diagnostic kits and methods of using 11D10,
 CC 11D10 polypeptides and/or 11D10 polynucleotides, including methods of
 CC treating HMG-associated tumours. 11D10 is also used in a claimed method
 CC of palliating HMG-associated disease and in claimed kits to detect or
 CC quantify anti-HMG antibody. (Updated on 25-MAR-2003 to correct FR
 CC field.)
 XX
 SQ Sequence 153 AA;
 Query Match 100.0%; Score 816; DB 2; Length 153;
 Best Local Similarity 100.0%; Pred. No. 1.1e-54;
 Matches 153; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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 DB 1 MECSWFLFLSTTTGVHSAVYLOSGAEIVRSGASVYKSCASGYTLTSTNMHWKQTP 60
 QY 61 GQGLEWIGNIFPGNGDTYYNOKFKKASLTADTSSSTAYMOISLTSBDSAVYFCARGNW 120
 DB 61 GQGLEWIGNIFPGNGDTYYNOKFKKASLTADTSSSTAYMOISLTSBDSAVYFCARGNW 120
 QY 121 EGALDYMGGTSTVYSSAKTTPPPYPLVPGSL 153
 DB 121 EGALDYMGGTSTVYSSAKTTPPPYPLVPGSL 153
 RESULT 2
 AAW87594
 ID AAW87594 standard; protein; 153 AA.
 AC AAW87594;
 XX
 DT 16-MAR-1999 (first entry)
 XX Antibody 11D10 heavy chain variable region.
 DE
 XX Murine; mouse; antibody; heavy chain; variable region; anti-idiotypic;
 KW human milk fat globule; tumour; ovary; lung; pancreas; carcinoma; breast.
 XX Mus sp.
 OS
 XX Key Location/Qualifiers
 FH 1..19
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FT Protein 20..153
 FT /note= "mature protein"
 FT Region 20..49
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 FT /label= CDR1
 FT /note= "complementarity determining region 1"
 FT Region 55..68
 FT /label= framework_2
 FT Domain 69..85
 FT /label= CDR2
 FT /note= "complementarity determining region 2"
 FT Region 86..117
 FT /label= framework_3
 FT Domain 118..126
 FT /label= CDR3
 FT /note= "complementarity determining region 3"
 FT 127..137
 FT /label= framework_4
 FT
 XX MO9656419-A1.
 XX
 PD 17-DEC-1998.
 XX
 PF 12-JUN-1998; 98WO-US012250.
 PR 13-JUN-1997; 97US-0049540P.
 PR 11-JUN-1998; 98US-00096244.
 XX
 PA (KENT) UNIV KENTUCKY RES FOUND.
 XX Chatterjee M, Poon KA;
 PI WPI; 1999-060029/05.
 DR N-PSDB; AAV83773.
 XX
 PT Delaying development of, or treating, HMG-associated tumours - using
 PT anti-idiotypic antibody 11D10 raised against antibodies to human milk fat
 PT globule protein.
 XX
 PS Disclosure; Fig 2; 54pp; English.
 XX
 CC This sequence represents the heavy chain variable region of the murine
 CC antibody 11D10. This anti-idiotypic antibody is used to delay the
 CC development of, or treat, a human milk fat globule (HMG) associated
 CC tumour in an individual having low tumour burden. The antibody 11D10 is
 CC used to prevent the recurrence of HMG-associated tumours e.g. ovarian,
 CC non-small cell lung and pancreatic carcinoma, especially for treating
 CC breast tumours
 CC
 SQ Sequence 153 AA;
 Query Match 100.0%; Score 816; DB 2; Length 153;
 Best Local Similarity 100.0%; Pred. No. 1.1e-54;
 Matches 153; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 MECSWFLFLSTTTGVHSAVYLOSGAEIVRSGASVYKSCASGYTLTSTNMHWKQTP 60
 DB 1 MECSWFLFLSTTTGVHSAVYLOSGAEIVRSGASVYKSCASGYTLTSTNMHWKQTP 60
 QY 61 GQGLEWIGNIFPGNGDTYYNOKFKKASLTADTSSSTAYMOISLTSBDSAVYFCARGNW 120
 DB 61 GQGLEWIGNIFPGNGDTYYNOKFKKASLTADTSSSTAYMOISLTSBDSAVYFCARGNW 120
 QY 121 EGALDYMGGTSTVYSSAKTTPPPYPLVPGSL 153
 DB 121 EGALDYMGGTSTVYSSAKTTPPPYPLVPGSL 153
 RESULT 3
 AAO16293
 ID AAO16293 standard; protein; 153 AA.
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OM nucleic - nucleic search, using sw model

Run on: December 6, 2004, 13:38:19 ; Search time 2367.26 Seconds
(without alignments)
7096.283 Million cell updates/sec

Title: US-08-836-455-3

Sequence: 1 ATGGATGACGCTGGCTCTT.....CTGTCTCTGAGACTTGCG 461

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 32822875 seqs, 18219865908 residues

Total number of hits satisfying chosen parameters: 65645750

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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1: gb_esc1: *
2: gb_esc2: *
3: gb_esc3: *
4: gb_esc4: *
5: gb_esc5: *
6: gb_esc6: *
7: gb_esc7: *
8: gb_esc8: *
9: gb_esc9: *

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	337.8	73.3	739	2	BE284158 601099428
2	326.8	70.9	892	4	BG518664 602578528
3	326.6	70.8	637	6	BY724721 601781314
4	320.8	69.6	941	2	BF138189 601781314
5	320.2	69.5	667	6	BY724790 601781314
6	319.6	69.3	1576	3	AK007918 Mus muscu
7	316.6	68.7	767	2	BF165456 601777347
8	316.4	68.6	794	4	BF150371 602915205
9	315.6	68.5	745	4	BG871607 602790090
10	311.2	67.5	546	6	CA576594 K0647806-
11	310.6	67.4	771	2	BF140551 601787584
12	309.6	67.2	529	6	CA576389 K064412-
13	308.6	66.9	616	2	BF136295 601781413
14	308.4	66.9	748	2	BF136397 601783927
15	308.4	66.9	838	7	COS55369 AGENCOURT
16	308.6	66.8	700	2	CF912433 A0632A03-
17	306.6	66.5	755	7	BF540088 602050325
18	305.6	66.2	644	2	BE281961 601098518
19	305	66.2	793	2	BF136093 601783539
20	305	66.2	891	2	BF138460 601782916
21	303.4	65.8	756	7	COS55837 AGENCOURT
22	303	65.7	955	7	BQ947728 AGENCOURT
23	302.6	65.6	469	6	CA574907 K0622H02-
24	301.6	65.4	690	4	BG966862 602836513

25	301.6	65.4	724	4	BG962137 602826902
26	301.4	65.4	753	7	COS59231 AGENCOURT
27	300.4	65.2	767	7	COS55860 AGENCOURT
28	299.8	65.0	604	2	BF140035 601791175
29	298.4	64.7	538	6	CA578968 K0731A04-
30	297.4	64.5	540	6	CA579750 K0741H07-
31	296.8	64.4	610	7	CF912857 A0638H09-
32	296.8	64.4	724	2	BF168514 601775412
33	296.8	64.4	847	2	BF165486 601773393
34	296.2	64.3	507	2	BF015548 UY23A08.Y
35	295.8	64.2	519	6	CA580087 K0746G01-
36	295.2	64.0	769	2	BF168856 601775314
37	293.6	63.7	819	4	BG966397 602832896
38	293.6	63.6	477	6	CA570382 K0505G11-
39	293	63.6	612	7	CN661462 A0719E06-
40	292.8	63.5	640	5	BQ109114 ImageQC_6
41	292.6	63.5	465	6	CA578116 K0718G11-
42	292.4	63.4	475	6	CA578534 K0725B11-
43	292.4	63.4	646	7	CN662544 A0735E04-
44	292.2	63.4	911	2	BE286958 601092470
45	292	63.3	429	6	CA579143 K0733D01-

ALIGNMENTS

RESULT 1
LOCUS BE284158 739 bp mRNA linear EST 13-JUL-2000
DEFINITION 601099428F1 NCI_CGAP_Lu29 Mus musculus cDNA clone IMAGE:3491766 5',
RNA sequence.
ACCESSION BE284158 GI:9160900
VERSION BE284158.1
KEYWORDS EST.
SOURCE Mus musculus (house mouse)
ORGANISM Mus musculus

REFERENCE
AUTHORS NIH-MGC http://mgc.nci.nih.gov/
TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL Unpublished (1999)
COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgabbs-remail.nih.gov
Tissue Procurement: Gilbert Smith, Ph.D.
CDNA Library Preparation: Life Technologies, Inc.
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LNL at:
http://image.llnl.gov
Place: L1AM8536 row: h column: 07
High quality sequence stop: 535.

FEATURES

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/mol_type="mRNA"
/strain="CZCH II"
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/clone="IMAGE:3491766"
/tissue_type="spontaneous tumor, metastatic to mammary."
Stem cell origin.
/lab_host="DH10B"
/clone_lib="NCI CGAP_Lu29"
/note="Organ: lung; Vector: pCMV-SPORT6; Site 1: SalI;
Site 2: NotI; Cloned unidirectionally. Primer: Oligo dt.
Library constructed by Life Technologies. Investigator
providing samples: Gilbert Smith, NIH"

ORIGIN

Query Match 73.3%; Score 337.8; DB 2; Length 739;
Best Local Similarity 84.1%; Pred. No. 9,6e-90;
Matches 301; Conservative 0; Mismatches 72; Indels 0; Gaps 0;

Query Match	70.9%	Score 326.8;	DB 4;	length 892;
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Matches 381; Conservative	0;	Mismatches 72;	Indels 1;	Cuts 1

453 GACACCCCATCTGTCTATCCACTGGCCCTTGA 486

RESULT 3	BY724721	BY724721	637 bp	mRNA	linear	EST 17-DEC-2005
LOCUS	BY724721					
DEFINITION	BY724721	RIKEN full-length enriched, adult male aorta and vein Mus musculus cDNA A550011123 5', mRNA sequence.				
ACCESSION	BY724721					
VERSION	BY724721.1	GI:27137848				
KEYWORDS	EST.					
SOURCE	Mus musculus (house mouse)					
ORGANISM						

Documentation: Gilbert Smith, Ph.D.
Library Preparation: Life Technologies, Inc.
Library Arrayed by: The I.M.A.G.E. Consortium (LINL)
Funding by: Invivo Genomics, Inc.
Distribution: MGC clone distribution information can be
through the I.M.A.G.E. Consortium/LINL at:
image.linl.gov
LINL8536 row: h column: 07
Library sequence depth: 771.
Location/Qualifiers
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/organism="Mus musculus"
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/tissue_type="spontaneous tumor, metastatic to mammary
stem cell origin."
/lab_host="DH10B"
/clone_id="NCI CGAP Lu29"
/note="Organ: lung; Vector: pCMV-Sport6; Site:1: SalI,

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OM nucleic - nucleic search, using sw model

Run on: December 6, 2004, 15:14:29 ; Search time 687.898 Seconds
(without alignments)
3682.388 Million cell updates/sec

Title: US-08-836-455-3

Sequence: 1 ATGGAATGACGCTGGCTTT.....CTGGTCCCTGGAAGCTTGCG 461

Scoring table: IDENTITY NUC
Gapop 10.0, Gapext 1.0

Searched: 3694831 seqs, 2747406616 residues

Total number of hits satisfying chosen parameters: 7389662

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-Processing: Minimum Match 0%

Maximum Match 100%
Listing first 45 summaries

Database :

Published Applications NA.*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	461	100.0	461	9	US-09-861-294-3 Sequence 3, Appl1
2	461	100.0	461	15	US-10-367-506-3 Sequence 3, Appl1
3	337.8	73.3	1406	18	US-10-742-405-11 Sequence 11, Appl1
4	327.2	71.0	409	14	US-10-160-232-7 Sequence 7, Appl1
5	326.6	70.8	736	13	US-10-006-773-12 Sequence 12, Appl1
6	311.6	67.2	1570	17	US-10-682-845-39 Sequence 39, Appl1
7	310	67.2	1570	10	US-09-793-515-6 Sequence 6, Appl1
8	310	67.2	1570	16	US-10-704-352-6 Sequence 6, Appl1
9	310	67.2	1570	18	US-10-703-963-6 Sequence 6, Appl1
10	297.2	64.5	9199	10	US-09-911-692-3 Sequence 3, Appl1
11	297.2	64.5	9209	9	US-09-911-703-3 Sequence 3, Appl1
12	297.2	64.5	9209	10	US-09-905-928-2 Sequence 2, Appl1

13	297.2	64.5	9209	14	US-10-096-964-2	Sequence 2, Appl1
14	297.2	64.5	9209	15	US-10-238-681-3	Sequence 3, Appl1
15	297.2	64.5	9209	16	US-10-411-037-58	Sequence 58, Appl1
16	297.2	64.5	9209	16	US-10-411-026-58	Sequence 58, Appl1
17	297.2	64.5	9209	16	US-10-410-962-58	Sequence 58, Appl1
18	297.2	64.5	9209	16	US-10-411-049-58	Sequence 58, Appl1
19	297.2	64.5	9209	17	US-10-410-930-58	Sequence 58, Appl1
20	297.2	64.5	9209	17	US-10-410-997-58	Sequence 58, Appl1
21	297.2	64.5	9209	17	US-10-411-012-58	Sequence 58, Appl1
22	297.2	64.5	9209	17	US-10-287-994-58	Sequence 58, Appl1
23	297.2	64.5	9209	17	US-10-410-913-58	Sequence 58, Appl1
24	297.2	64.5	18986	13	US-10-109-850-2	Sequence 2, Appl1
25	297.2	64.5	18986	17	US-10-817-950-2	Sequence 2, Appl1
26	296.4	64.3	1392	15	US-10-216-484-8	Sequence 8, Appl1
27	296.4	64.3	1392	15	US-10-384-933-8	Sequence 8, Appl1
28	295.2	64.0	482	9	US-09-881-823-19	Sequence 19, Appl1
29	292	63.3	478	13	US-10-040-739-911	Sequence 911, App
30	291.4	63.2	1314	9	US-09-903-327A-5	Sequence 5, Appl1
31	291.4	63.2	1516	9	US-09-753-436-77	Sequence 77, Appl1
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33	289.6	62.8	422	15	US-10-150-762-85	Sequence 85, Appl1
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ALIGNMENTS

RESULT 1
US-09-861-294-3
; Sequence 3, Application US/09861294
; Patent No. US20020098190A1
; GENERAL INFORMATION:
; APPLICANT: Malaya CHATTERJEE
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR TREATING
; FILE REFERENCE: 304142000620
; CURRENT APPLICATION NUMBER: US/09/861,294
; PRIOR FILING DATE: 2001-05-17
; PRIOR APPLICATION NUMBER: 60/049,540
; PRIOR FILING DATE: 1997-06-13
; PRIOR APPLICATION NUMBER: 09/096,244
; PRIOR FILING DATE: 1998-06-11
; NUMBER OF SEQ ID NOS: 38
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 461
; TYPE: DNA
; ORGANISM: Mus musculus
; FEATURE:
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; LOCATION: (1)...(461)
; NAME/KEY: sig_peptide
; LOCATION: (1)...(57)
; NAME/KEY: mat_peptide
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US-09-861-294-3
Query Match 100.0%; Score 461; DB 9; Length 461;
Best Local Similarity 100.0%; Pred. No. 5.1e+140;
Matches 461; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

GenCore version 5.1.6
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OM protein - protein search, using SW model

Run on: December 6, 2004, 13:29:00 ; Search time 58.0168 Seconds
(without alignments)
1517.360 Million cell updates/sec

Title: US-08-836-455-4

Perfect score: 816

Sequence: 1 MECSWVFLPLSLITTVSHQ.....TVSSAKTTPPVYPLVPGSL 153

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Minimum DB seq length: 0

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Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : UniProt_02.*

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2: uniprot_trcembl.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysts of the total score distribution.

SUMMARIES

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3	575	70.5	465	2 Q6PUB2	Q6PUB2 mus musculus
4	575	70.5	465	2 AAH18280	AAH18280 mus musculus
5	569	69.7	473	2 Q99L25	Q99L25 mus musculus
6	561.5	68.8	464	2 Q6PR95	Q6PR95 mus musculus
7	561.5	68.8	464	2 AAH57672	AAH57672 mus musculus
8	553.5	67.8	472	2 Q6P3A7	Q6P3A7 mus musculus
9	553.5	67.8	472	2 AAH18535	AAH18535 mus musculus
10	549.5	67.3	470	2 Q8VDC9	Q8VDC9 mus musculus
11	548.5	67.2	470	2 Q7TMM1	Q7TMM1 mus musculus
12	544	66.7	463	2 Q8VCK7	Q8VCK7 mus musculus
13	524.5	64.5	481	2 Q91WT1	Q91WT1 mus musculus
14	524.5	64.3	474	2 Q8R3H6	Q8R3H6 mus musculus
15	523.5	64.2	140	1 HV02_MOUSE	P01746 mus musculus
16	521	63.8	482	2 Q8K172	Q8K172 mus musculus
17	518.5	63.5	614	2 Q7TMT6	Q7TMT6 mus musculus
18	516.5	63.3	468	2 Q8VCK4	Q8VCK4 mus musculus
19	515.5	63.2	468	2 Q99L31	Q99L31 mus musculus
20	514	63.0	136	2 Q7TPE3	Q7TPE3 mus musculus
21	506.5	62.1	142	2 Q924Q1	Q924Q1 mus musculus
22	499	61.2	480	2 Q8K024	Q8K024 mus musculus
23	494.5	60.6	481	2 Q8VCV5	Q8VCV5 mus musculus
24	493	60.4	139	1 HV07_MOUSE	P01751 mus musculus
25	493	60.4	488	2 Q91WR1	Q91WR1 mus musculus
26	489	59.9	488	2 Q8KOP2	Q8KOP2 mus musculus
27	482	59.1	143	2 Q924R0	Q924R0 mus musculus
28	479.5	58.8	145	2 Q91WT3	Q91WT3 mus musculus
29	478	58.6	145	2 Q924R4	Q924R4 mus musculus
30	477.5	58.5	145	2 AAH19337	AAH19337 homo sapi
31	474	58.1	145	2 Q924P7	Q924P7 mus musculus

ALIGNMENTS

32	474	58.1	145	2 Q924R1	Q924R1 mus musculus
33	473.5	58.0	140	2 Q924P8	Q924P8 mus musculus
34	473.5	58.0	146	2 Q924Q3	Q924Q3 mus musculus
35	472	57.8	145	2 Q924Q6	Q924Q6 mus musculus
36	471	57.7	143	2 Q924P9	Q924P9 mus musculus
37	470	57.6	137	1 HV11_MOUSE	P01755 mus musculus
38	469	57.5	145	2 Q924Q9	Q924Q9 mus musculus
39	467	57.2	145	2 Q924Q7	Q924Q7 mus musculus
40	466.5	57.2	142	2 Q924Q2	Q924Q2 mus musculus
41	466.5	57.2	146	2 Q924R8	Q924R8 mus musculus
42	465	57.0	143	2 Q924Q0	Q924Q0 mus musculus
43	464	56.9	143	2 Q924P6	Q924P6 mus musculus
44	464	56.9	143	2 Q924R7	Q924R7 mus musculus
45	464	56.9	145	2 Q924R3	Q924R3 mus musculus

RESULT 1

Q9DBL4	PRELIMINARY;	PRT;	473 AA.
AC Q9DBL4;			
DT 01-JUN-2001 (TrEMBLrel. 17, Created)			
DT 01-JUN-2001 (TrEMBLrel. 17, Last sequence update)			
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)			
DE Mus musculus 10 day old male pancreas cDNA, RIKEN full-length enriched library, clone:181006009 product:immunoglobulin heavy chain 6 (heavy DE chain of IgM), full insert sequence.			
GN Name=Igh-1a;			
OS Mus musculus (Mouse).			
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;			
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Mus.			
OX NCBI_TaxID=10090;			
OX [1]			
RP SEQUENCE FROM N.A.			
RC STRAIN=C57BL/6J; TISSUE=Pancreas;			
RC MEDLINE=99279253; PubMed=10349636;			
RA Carninci P., Hayashizaki Y.,			
RT "High-efficiency full-length cDNA cloning.";			
RL Meth. Enzymol. 303:19-44(1999).			
RL [2]			
RP SEQUENCE FROM N.A.			
RC STRAIN=C57BL/6J; TISSUE=Pancreas;			
RC MEDLINE=21085660; PubMed=11217851;			
RA RIKEN FANTOM Consortium;			
RT "Functional annotation of a full-length mouse cDNA collection.";			
RL Nature 409:685-690(2001).			
RL [3]			
RP SEQUENCE FROM N.A.			
RC STRAIN=C57BL/6J; TISSUE=Pancreas;			
RC The FANTOM Consortium;			
RA the RIKEN Genome Exploration Research Group Phase I & II Team;			
RT "Analysis of the mouse transcriptome based on functional annotation of 60,770 full-length cDNAs.";			
RL Nature 420:563-573(2002).			
RL [4]			
RP SEQUENCE FROM N.A.			
RC STRAIN=C57BL/6J; TISSUE=Pancreas;			
RC MEDLINE=2049374; PubMed=11042159;			
RA Carninci P., Shibata Y., Hayatsu N., Sugahara Y., Shibata K., Itoh M.,			
RT "Normalization and subtraction of cap-trapper-selected cDNAs to prepare full-length cDNA libraries for rapid discovery of new genes.";			
RL Genome Res. 10:1617-1630(2000).			
RL [5]			
RP SEQUENCE FROM N.A.			
RC STRAIN=C57BL/6J; TISSUE=Pancreas;			
RC MEDLINE=2050913; PubMed=11076861;			
RA Shibata K., Itoh M., Aizawa K., Nagaoka S., Sasaki N., Carninci P.,			
RA Kono H., Akiyama J., Nishii K., Katsunai T., Taishiro H., Itoh M.,			
RA Sumi N., Ishii Y., Nakamura S., Hazama M., Nishino T., Harada A.,			
RA Yamamoto R., Matsumoto H., Sakaguchi S., Ikegami T., Kashiwagi K.,			

RA Fujiwaka S., Inoue K., Togawa Y., Izawa M., Ohara E., Watabiki M.,
RA Yoneda Y., Ishikawa T., Ozawa K., Tanaka T., Matsura S., Kawai J.,
RA Okazaki Y., Muramatsu M., Inoue Y., Kira A., Hayashizaki Y.,
RT "RIKEN integrated sequence analysis (RISA) system-384-format
RT sequencing pipeline with 384 multicapillary sequencer.",
RL Genome Res. 10:1757-1771 (2000).
RN [6].

RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J; TISSUE=Pancreas;
RA Adachi U., Aizawa K., Akahira S., Akimura T., Arai A., Aono H.,
RA Arahata T., Bono H., Carninci P., Fukuda S., Fukunishi Y., Furuo M.,
RA Hanagaki T., Hara A., Hayatsu N., Hiramoto K., Hirooka T., Hori F.,
RA Imocani K., Ishii Y., Itoh M., Izawa M., Kanokawa T., Kato H.,
RA Kawai J., Kojima Y., Konno H., Kouda M., Koya S., Kurihara C.,
RA Matsuyama T., Miyazaki A., Nishi K., Nomura K., Numazaki R., Ono M.,
RA Okazaki Y., Okido T., Owa C., Saito K., Saito R., Sakai C., Sakai K.,
RA Sano H., Sasaki D., Shibata K., Shibata Y., Shingawa A., Shiraki T.,
RA Sogabe Y., Suzuki H., Tagami M., Tagawa A., Takahashi F., Tanaka T.,
RA Tejima Y., Toya T., Yamamura T., Yasunishi A., Yoshida K., Yoshino M.,
RA Muramatsu M., Hayashizaki Y.,
RL Submitted (JUL-2000) to the EMBL/GenBank/DBJ databases.
DR EMBL; AK007918; BAB5349.1; -.

DR PIR; PH165; PH165.
DR PIR; S19966; S19966.
DR PIR; S26746; S26746.
DR HSSP; P01864; 1BOG.
DR MGD; MGI:96443; Igh-1a.
DR GO; GO:0042571; C:immunoglobulin complex, circulating; IDA.
DR GO; GO:0005271; C:multivesicular body; IDA.
DR GO; GO:0003823; P:antigen binding; IDA.
DR GO; GO:0001788; P:antibody-dependent cellular cytotoxicity; IDA.
DR GO; GO:0003033; P:antigen processing; IDA.
DR GO; GO:0006958; P:complement activation, classical pathway; IDA.
DR GO; GO:0045022; P:early endosome to late endosome transport; IDA.
DR GO; GO:0008333; P:endosome to lysosome transport; IDA.
DR GO; GO:0006911; P:phagocytosis, engulfment; IDA.
DR GO; GO:0006910; P:phagocytosis, recognition; IDA.
DR GO; GO:0050771; P:positive regulation of B-cell activation; IDA.
DR GO; GO:0050778; P:positive regulation of immune response; IDA.
DR GO; GO:0050766; P:positive regulation of phagocytosis; IDA.
DR GO; GO:0001812; P:positive regulation of type I hypersensitivity; IDA.
DR GO; GO:0001798; P:positive regulation of type I hypersensitivity; IDA.
DR GO; GO:0030162; P:regulation of proteolysis and peptidolysis; IDA.
DR InterPro; IPR007110; Iq-1like.
DR InterPro; IPR003597; Iq_c1.
DR InterPro; IPR003006; Iq_MHC.
DR InterPro; IPR003596; Iq_v.
DR Pfam; PF07654; C1-sec; 3.
DR Pfam; PF00047; Iq; 1.
DR SMART; SM00406; Iq; 1.
DR PROSITE; PS50835; Iq_LIKE; 4.
DR PROSITE; PS00290; Iq_MHC; UNKNOWN 1.
SQ SEQUENCE 473 AA; 51699 MW; 9DED57A514475FBB CRC64;

Query Match 72.2%; Score 589.5; DB 2; Length 473;
Best local Similarity 74.8%; Pred. No. 2.1e-45;
Matches 113; Conservative 13; Mismatches 24; Indels 1; Gaps 1;
QY 1 MECSWFLFLSLITGVHSAQVILQSGALVSGASVKKSCAGVTLTSMVHMVKQTP 60
DB 1 MEMSWFLFLSLVTVAGVHCQVQLKSGALVSGASVKISCAAGVTLTDIYINVKQRP 60
QY 61 GGGLENGIIPFGNDITYNOKFKGASLTADTSSSTAYMOISLTSSDSAVYFCARGNW 120
DB 61 GGGLENGIIGSGSSTYNEKFKATLIDKSSSTAYMOISLTSSDSAVYFCARGCY 120
QY 121 E-GALDYMGGTSVYVSAKTTTPPYPLVP 150
DB 121 DVDWFMVGGGLVTVSAKTTAPSVYPLAP 151

RESULT 2
Q99LC4

ID Q99LC4 PRELIMINARY; PRT; 463 AA.

AC Q99LC4

DT 01-JUN-2001 (TrEMBLrel. 17, Created)

DT 01-JUN-2001 (TrEMBLrel. 17, Last sequence update)

DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)

DE Igh-4 protein.

GN Name=Igh-4;

OS Mus musculus (Mouse).

OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;

OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Mus.

OX NCBI_TaxID=10090;

RN [1]

RP SEQUENCE FROM N.A.

RC STRAIN=FVB/N;

RC TISSUE=Mammary tumor. Metallothionein-TGF alpha model. 10 month old

RC virgin mouse. Taken by biopsy.

RX MEDLINE=22388257; PubMed=12477932;

RA Klausner R.L., Feingold E.A., Grouse L.H., Derge J.G.,

RA Klausner R.L., Collins F.S., Wagner L., Sherman C.M., Schuler G.D.,

RA Altschul S.F., Zeeberg B., Buettow K.H., Schaefer C.F., Bhat N.K.,

RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,

RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,

RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant J.L., Scheetz T.E.,

RA Brownstein M.J., Ueda T.B., Toshnyuki S., Carninci P., Prange C.,

RA Rana S.S., Loggellano N.A., Peters G.J., Abramson R.D., Mullaly S.J.,

RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,

RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,

RA Villalón D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,

RA Fahy J., Helton E., Keltman M., Madan A., Rodriguez S., Sanchez A.,

RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,

RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,

RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., Butterfield Y.S.,

RA Krzywinski M.I., Skalska U., Smallos D.E., Scherch A., Schein J.E.,

RA Jones S.J., Marra M.A.,

RT "Generation and initial analysis of more than 15,000 full-length human

RT and mouse cDNA sequences".

RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903 (2002).

RN [2]

RP SEQUENCE FROM N.A.

RC STRAIN=FVB/N;

RC TISSUE=Mammary tumor. Metallothionein-TGF alpha model. 10 month old

RC virgin mouse. Taken by biopsy.

RL Submitted (FEB-2001) to the EMBL/GenBank/DBJ databases.

DR EMBL; BC003435; AA003435.1; -.

DR PIR; B45837; B45837.

DR HSSP; P01869; 1CLU7.

DR MGD; MGI:96446; Igh-4.

DR GO; GO:0042571; C:immunoglobulin complex, circulating; IDA.

DR GO; GO:0003823; P:antigen binding; IDA.

DR GO; GO:0019723; P:antibacterial humoral response (sensu Verte. . .; IDA.

DR GO; GO:0001788; P:antibody-dependent cellular cytotoxicity; IDA.

DR GO; GO:0006958; P:complement activation, classical pathway; IDA.

DR GO; GO:0042830; P:defense response to pathogenic bacteria; IDA.

DR GO; GO:0006911; P:phagocytosis, engulfment; IDA.

DR GO; GO:0006910; P:phagocytosis, recognition; IDA.

DR GO; GO:0050766; P:positive regulation of immune response; IDA.

DR GO; GO:0001812; P:positive regulation of phagocytosis; IDA.

DR GO; GO:0001798; P:positive regulation of type I hypersensitivity; IDA.

DR InterPro; IPR007110; Iq-1like.

DR InterPro; IPR003597; Iq_c1.

DR InterPro; IPR003006; Iq_MHC.

DR InterPro; IPR003596; Iq_v.

DR Pfam; PF07654; C1-sec; 3.

DR Pfam; PF00047; Iq; 1.

DR SMART; SM00406; Iq; 1.

DR PROSITE; PS50835; Iq_LIKE; 4.

DR PROSITE; PS00290; Iq_MHC; UNKNOWN 1.

SQ SEQUENCE 463 AA; 51007 MW; EAA674C6B8C30783 CRC64;

Query Match 71.2%; Score 581; DB 2; Length 463;
Best local Similarity 70.8%; Pred. No. 1.2e-44;

C:Superfamily: immunoglobulin C region, immunoglobulin homology
C:Keywords: immunoglobulin
F:276-345/Domain: immunoglobulin homology <IMM>

Query Match 69.0%; Score 563; DB 2; Length 469;
Best Local Similarity 71.7%; Pred. No. 2, 5e-37;
Matches 109; Conservative 15; Mismatches 26; Indels 2; Gaps 1;

QY 1 MECSWVFLFLSITTTGVHSAVYLQOSGAEIVRSASVMSCKASGYTLTSYMMHWKQTP 60
DB 1 MEMSWIFLFLSGTGVHSAVYLQOSGAEIVRSASVMSCKASGYTLTSYMMHWKQTP 60
QY 61 GGGLEWIGNIFPGNDITYNOKFKKASLTADTSSSTAYMQISLTSSEDSAVYFCAR--G 118
DB 61 GGGLEWIGNIFPGNDITYNOKFKKASLTADTSSSTAYMQISLTSSEDSAVYFCAR--G 118
QY 119 NMEGALDYGQGTSTVSSAKTTPPPVPLVP 150
DB 121 ATATLLDYGQGTSTVSSAKTTPPPVPLVP 152

RESULT 3

G2MS11

Ig gamma-2b chain - mouse

C:Species: Mus musculus (house mouse)

C:Date: 31-Mar-1980 #sequence revision 01-Dec-2000 #text change 09-Jul-2004

C:Accession: S25057; A02157; A26232; A26233; A53558

R:Fiicher, R.; Voss, A.; Niersbach, M.; Munziker, W.; Hirsch, H.-J.; Kreuzaler, F.

submitted to the EMBL Data Library, July 1992

A:Description: Production of a Tobacco mosaic virus (TMV) inactivating neotop specific

A:Reference number: S25057

A:Accession: S25057

A:Status: Preliminary

A:Molecule type: mRNA

A:Residues: 1-474 <FIS>

A:Cross-references: UNIPROT:P01866; EMBL:X67210; NID:954826; PIDN:CAA47649.1; PID:954827

R:Yamawaki-Karaoke, Y.; Katokaka, T.; Takahashi, N.; Obata, M.; Honjo, T.

Nature 283, 786-789, 1980

A:Title: Complete nucleotide sequence of immunoglobulin gamma2b chain gene cloned from

A:Reference number: A02157; MUID:80120716; PMID:6766534

A:Contents: a allele

A:Molecule type: DNA

A:Residues: 138-161, 'L', 163-189, 'P', 193-474 <YAM>

A:Cross-references: GB:000461

A:Note: the sequence was determined from the germline gene

R:Trucker, P.W.; Marcu, K.B.; Slightom, J.L.; Blattner, F.R.

Science 206, 1299-1303, 1979

A:Title: Structure of the constant and 3' untranslated regions of the murine gamma2b

A:Reference number: A26235; MUID:80081501; PMID:117548

A:Contents: MPC 11

A:Accession: A26235

A:Molecule type: mRNA

A:Residues: 138-172, 'P', 174-189, 'P', 193-376, 'T', 378-474 <TU>

A:Note: Lys-474 is probably removed posttranscriptionally

R:Trucker, P.W.; Marcu, K.B.; Newell, N.; Richard, J.; Blattner, F.R.

Science 206, 1303-1306, 1979

A:Title: Sequence of the cloned gene for the constant region of murine gamma2b

A:Reference number: A26232; MUID:80081502; PMID:117549

A:Accession: A26232

A:Molecule type: DNA

A:Residues: 138-172, 'P', 174-189, 'P', 193-376, 'T', 378-474 <TU>

R:O'Neil, R.; Rougeon, F.

Nature 296, 761-763, 1982

A:Title: Mouse immunoglobulin allotypes: post-duplication divergence of gamma2a and

A:Reference number: A26233; MUID:82173203; PMID:6803173

A:Contents: b allele

A:Accession: A26233

A:Molecule type: DNA

A:Residues: 138-161, 'L', 163-189, 'P', 193-300, 'R', 302-331, 'A', 333-437, 'D', 440-474 <OIL>

A:Cross-references: GB:000461

R:Kim, H.; Yamaguchi, Y.; Masuda, K.; Matsunaga, C.; Yamamoto, K.; Irimura, T.; Takahashi

A:Title: O-glycosylation in hinge region of mouse immunoglobulin G2b.
A:Reference number: A53598; MUID:94216359; PMID:7512967

A:Accession: A53598

A:Status: Preliminary

A:Molecule type: protein

A:Residues: 234-251 <KIM>

C:Comment: The a allele sequence is shown.

C:Genetics:

A:Introns: 138/1, 236/1; 258/1; 368/1

C:Complex: An immunoglobulin heterotetramer subunit consists of two identical light (k)

chain disulfide bonds. In some cases, such as IgA and IgM, the subunits associate into 1

C:Superfamily: immunoglobulin C region; immunoglobulin homology

C:Keywords: alternative splicing; duplication; glycoprotein; heterotetramer; immunoglob

F:157-222/Domain: immunoglobulin homology <IM1>

F:236-257/Region: hinge

F:281-350/Domain: immunoglobulin homology <IM2>

F:387-454/Domain: immunoglobulin homology <IM3>

F:152/Disulfide bonds: interchain (to light chain) #status predicted

F:164-220,288-348,394-452/Disulfide bonds: #status predicted

F:247,250,253,256/Disulfide bonds: interchain (to heavy chain) #status predicted

F:324/Binding site: carbohydrate (asn) (covalent) #status predicted

Query Match 68.6%; Score 560; DB 1; Length 474;
Best Local Similarity 70.8%; Pred. No. 4, 4e-37;
Matches 109; Conservative 13; Mismatches 26; Indels 6; Gaps 2;

QY 1 MECSWVFLFLSITTTGVHSAVYLQOSGAEIVRSASVMSCKASGYTLTSYMMHWKQTP 60
DB 1 MEMSWIFLFLSGTGVHSAVYLQOSGAEIVRSASVMSCKASGYTLTSYMMHWKQTP 60
QY 61 GGGLEWIGNIFPGNDITYNOKFKKASLTADTSSSTAYMQISLTSSEDSAVYFCAR-- 118
DB 61 GGGLEWIGNIFPGNDITYNOKFKKASLTADTSSSTAYMQISLTSSEDSAVYFCAR-- 118
QY 119 NMEGALDYGQGTSTVSSAKTTPPPVPLVP 151
DB 121 YDM--FAVMGQGLTVSSAKTTPPPVPLVP 151

RESULT 4

PS0024

Ig heavy chain precursor V region (6A4) - mouse

C:Species: Mus musculus (house mouse)

C:Date: 07-Jun-1990 #sequence revision 07-Jun-1990 #text change 22-Nov-1996

C:Accession: PS0024

R:Margel, M.; Eckhardt, A.; Ehret, W.; von Specht, B.U.; Duchene, M.; Dondey, H.

Gene 74, 335-345, 1988

A:Title: Cloning and characterization of cDNAs coding for the heavy and light chains of

A:Reference number: PS0023; MUID:89232725; PMID:3149944

A:Accession: PS0024

A:Molecule type: mRNA

A:Residues: 1-139 <MAR>

A:Experimental source: strain BALB/c

C:Comment: This chain is obtained from an IgG2a monoclonal antibody against Pseudomonas

C:Superfamily: immunoglobulin V region; immunoglobulin homology

C:Keywords: heterotetramer; immunoglobulin; pyroglutamic acid

F:1-19/Domain: signal sequence #status predicted <SIG>

F:20-119/Domain: Ig heavy chain V region #status predicted <IGV>

F:34-117/Domain: immunoglobulin homology <IM1>

F:20/Modified site: pyroglutamic acid (Gln) (in mature form) #status predicted

Query Match 67.3%; Score 549; DB 2; Length 139;
Best Local Similarity 76.3%; Pred. No. 8, 8e-37;
Matches 106; Conservative 9; Mismatches 22; Indels 2; Gaps 1;

QY 1 MECSWVFLFLSITTTGVHSAVYLQOSGAEIVRSASVMSCKASGYTLTSYMMHWKQTP 60
DB 1 MEMSWIFLFLSGTGVHSAVYLQOSGAEIVRSASVMSCKASGYTLTSYMMHWKQTP 60
QY 61 GGGLEWIGNIFPGNDITYNOKFKKASLTADTSSSTAYMQISLTSSEDSAVYFCAR-- 118
DB 61 GGGLEWIGNIFPGNDITYNOKFKKASLTADTSSSTAYMQISLTSSEDSAVYFCAR-- 118

GenCore Version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: December 6, 2004, 13:38:54 ; Search time 66.8662 Seconds
(without alignments)
4898.976 Million cell updates/sec

Title: US-08-836-455-3

Perfect score: 461
Sequence: 1 ATCGAATGACGCTGGCTTT.....CTGCTCCCTGGAAGCTTGGG 461

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 824507 seqs, 355394441 residues

Total number of hits satisfying chosen parameters: 1649014

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents NA:
1: /cgn2_6/prodata/1/ina/5A COMB.seq:*
2: /cgn2_6/prodata/1/ina/5B COMB.seq:*
3: /cgn2_6/prodata/1/ina/6A COMB.seq:*
4: /cgn2_6/prodata/1/ina/6B COMB.seq:*
5: /cgn2_6/prodata/1/ina/PCTUS COMB.seq:*
6: /cgn2_6/prodata/1/ina/backfile1.seq:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	461	100.0	461	3	US-09-096-244-3
2	324.6	70.4	453	4	US-08-513-968-33
3	322	69.8	459	4	US-09-724-138-43
4	320	69.4	1683	3	US-09-192-545-1
5	311.6	67.6	1570	2	US-08-116-247-6
6	311.6	67.6	1570	4	US-09-348-224-6
7	310	67.2	1570	2	US-08-303-5698-6
8	310	67.2	1570	4	US-09-795-515-6
9	304.4	66.0	1572	4	US-08-353-400-23
10	299.8	65.0	1421	4	US-09-254-180C-142
11	297.2	64.5	9209	1	US-08-149-099C-3
12	297.2	64.5	9209	1	US-08-476-275-2
13	297.2	64.5	9209	2	US-08-478-967A-3
14	297.2	64.5	9209	3	US-08-475-815B-3
15	297.2	64.5	9209	4	US-08-475-813-2
16	297.2	64.5	18986	2	US-08-819-866-2
17	297.2	64.5	18986	2	US-09-023-715-2
18	297.2	64.5	18986	4	US-09-343-485A-2
19	297	64.4	10844	3	US-08-444-644-41
20	297	64.4	10844	3	US-08-232-246A-41
21	295.8	64.2	408	5	PCT-US93-11611-3
22	295.4	64.1	10785	3	US-08-444-644-27
23	295.4	64.1	10785	3	US-08-232-246A-27
24	295.4	64.1	11528	3	US-08-444-644-18
25	295.4	64.1	11528	3	US-08-232-246A-18
26	294.2	63.8	417	2	US-08-452-164A-7
27	293.2	63.6	416	1	US-08-253-877C-7

28	293.2	63.6	416	3	US-08-603-024-1	Sequence 1, Appl1
29	293.2	63.6	416	4	US-08-450-809-1	Sequence 1, Appl1
30	291	63.1	411	2	US-08-574-699A-3	Sequence 3, Appl1
31	289.6	62.8	422	1	US-08-482-882-77	Sequence 77, Appl1
32	289.6	62.8	422	1	US-08-483-389-77	Sequence 77, Appl1
33	289.6	62.8	422	2	US-08-487-113D-77	Sequence 77, Appl1
34	289.6	62.8	422	2	US-08-473-503-77	Sequence 77, Appl1
35	289.6	62.8	422	2	US-08-483-932-77	Sequence 77, Appl1
36	289.6	62.8	422	2	US-08-720-420A-77	Sequence 77, Appl1
37	289.6	62.8	422	3	US-08-714-017-77	Sequence 77, Appl1
38	289.6	62.8	422	3	US-08-475-680-77	Sequence 77, Appl1
39	289.6	62.8	1425	4	US-09-592-998C-6	Sequence 6, Appl1
40	288.4	62.6	690	2	US-08-634-783A-1	Sequence 1, Appl1
41	288.4	62.6	690	3	US-09-070-817-1	Sequence 1, Appl1
42	286.6	62.2	405	1	US-07-634-278-68	Sequence 68, Appl1
43	286.6	62.2	405	1	US-08-477-728-68	Sequence 68, Appl1
44	286.6	62.2	405	1	US-08-474-040-68	Sequence 68, Appl1
45	286.6	62.2	405	1	US-08-487-200-68	Sequence 68, Appl1

ALIGNMENTS

RESULT 1
US-09-096-244-3
Sequence 3, Application US/09096244
Patent No. 6274143
GENERAL INFORMATION:
APPLICANT: Chatterjee, Malaya
APPLICANT: Foon, Kenneth A.
TITLE OF INVENTION: METHODS OF DELAYING DEVELOPMENT OF
TITLE OF INVENTION: HMGs-ASSOCIATED TUMORS USING ANTI-IDIOTYPE ANTIBODY 11D10
NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
ADDRESSEE: MORRISON & FORSTER
STREET: 755 PAGE MILL ROAD
CITY: PALO ALTO
STATE: CA
COUNTRY: USA
ZIP: 94304-1018
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: IBM PC compatible
SOFTWARE: Patent in Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/096,244
FILING DATE:
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Polizzi, Catherine M.
REGISTRATION NUMBER: 40,130
REFERENCE/DOCKET NUMBER: 30414-20006.00
TELECOMMUNICATION INFORMATION:
TELEPHONE: (650) 913-5600
TELEFAX: (650) 494-0792
TELEX: 706141
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 461 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
FEATURE:
NAME/KEY: CDS
LOCATION: 1..459
FEATURE:
NAME/KEY: mat_peptide
LOCATION: 58
US-09-096-244-3
Query Match 100.0%; Score 461; DB 3; Length 461;

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: December 6, 2004, 13:36:24 ; Search time 352.953 Seconds
(without alignments)
6856.387 Million cell updates/sec

Title: US-08-836-455-3

Perfect score: 461
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Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 4134886 seqs, 2624710521 residues

Total number of hits satisfying chosen parameters: 8269772

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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3: geneseqn2000s:*
4: geneseqn2001as:*
5: geneseqn2001bs:*
6: geneseqn2002as:*
7: geneseqn2002bs:*
8: geneseqn2003as:*
9: geneseqn2003bs:*
10: geneseqn2003cs:*
11: geneseqn2003ds:*
12: geneseqn2004s:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	461	100.0	461	2	AAT85150 Murine mo
2	461	100.0	461	2	AAV83773 Antibody
3	461	100.0	461	8	AAU51274
4	337.6	73.2	1401	3	AAU58178 Mouse vit
5	327.2	71.0	409	3	AAZ87715 Anti-huma
6	326.6	70.8	726	8	AAAF70192 Anti-huma
7	323	70.1	540	1	AAAX16571 Mouse DNA
8	323	69.8	458	1	AAAN91645 Heavy cha
9	322	69.8	459	2	AAAN91146 2H7 Vh se
10	322	69.8	459	2	AAV82357 Mouse ant
11	322	69.8	459	4	AAH22070 2H7 heavy
12	322	69.8	459	10	ADC65026 Immunoglob
13	322	69.8	491	2	AAAT70868 2H7 heavy
14	322	69.8	491	2	AAV03926 Mouse 2H7
15	322	69.8	491	2	AAV18557 Mouse 2H7
16	322	69.8	491	2	AAV18593 Mouse 2H7
17	322	69.8	518	2	AAAT36316 2H7 antib
18	320.6	69.5	520	2	AAAT51042 Coding se
19	320	69.4	1553	2	AAQ79930 Anti-toba
20	320	69.4	1683	2	AAAX1084 Mouse imm
21	314.8	68.3	494	2	AAV20085 Consensus

22	311.6	67.6	1570	2	AAQ12637	AaQ12637 Monoclonal
23	311.6	67.6	1570	12	ADQ91058	AaQ91058 Murine OK
24	310.2	67.3	1581	1	AAQ48037	AaQ48037 Monoclonal
25	309.4	67.1	459	1	AAAT70971	AaAT70971 2H7 Vh se
26	308.6	66.9	420	4	AAAF81910	AaAF81910 Anti-CA12
27	308.2	66.9	588	2	AAQ43385	AaQ43385 H-chain V
28	308.2	66.9	1392	2	AAAT62935	AaAT62935 3F4 (Chim
29	308.2	66.9	1395	2	AAAT62935	AaAT62935 Murine an
30	308.2	66.9	3400	2	AAAT62937	AaAT62937 3F4 human
31	308.2	66.9	5300	2	AAAT62938	AaAT62938 3F4 human
32	306.4	66.5	468	2	AAAV05544	AaAV05544 Nucleotid
33	305	66.2	725	3	AAAA43821	AaAA43821 Mouse sec
34	304.4	66.0	1582	2	AAQ94037	AaQ94037 Mab 55.1
35	299.8	65.0	440	2	AAV22074	AaV22074 DNA encod
36	299.4	64.9	458	2	AAQ15164	AaQ15164 Vh186 reg
37	297.4	64.5	1773	2	AAAT88659	AaAT88659 H chain s
38	297.4	64.5	1773	2	AAV66735	AaV66735 Anti-huma
39	297.4	64.5	1773	3	AAAT8202	AaAT8202 Anti-huma
40	297.2	64.5	1083	6	AAAD5753	AaAD5753 Human CH2
41	297.2	64.5	1083	8	ABZ24017	AbZ24017 Antibody
42	297.2	64.5	1413	3	AAAB3531	AaAB3531 DNA encod
43	297.2	64.5	1413	6	AAAD5752	AaAD5752 Human C2B
44	297.2	64.5	1413	8	ABZ24016	AbZ24016 Antibody
45	297.2	64.5	9208	2	AAQ65629	AaQ65629 Vector co

ALIGNMENTS

RESULT 1	AAAT85150	standard; cDNA; 461 BP.
ID	AAAT85150	
XX	AAAT85150;	
AC	XX	
DT	25-MAR-2003 (revised)	
DT	04-JUN-1998 (first entry)	
XX	XX	
DE	Murine monoclonal anti-idiotype antibody 11D10 VH cDNA.	
XX	XX	
KM	Monoclonal anti-idiotype antibody; mucin;	
KM	human milk fat globule; HMFg; tumour; breast cancer; vaccine; ss.	
XX	XX	
OS	Mus musculus.	
XX	XX	
FM	Key	Location/Qualifiers
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FT	mat_peptide	58..461
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XX	XX	
PN	MO9722699-A2.	
XX	XX	
PD	26-JUN-1997.	
XX	XX	
PF	19-DEC-1996;	96WC-US020757.
XX	XX	
PR	20-DEC-1995;	95US-00575762.
PR	26-JAN-1996;	96US-00591965.
PR	13-DEC-1996;	96US-00766350.
XX	XX	
PA	(KENT) UNIV KENTUCKY.	
XX	XX	
PI	Chatterjee M, Foon KA, Chatterjee SK,	
XX	XX	
DR	WPI: 1997-341690/31.	
DR	P-PSDB; AAW27120.	
XX	XX	
PT	Monoclonal anti-idiotype antibody 11D10 - elicits immune response against	
PT	human milk fat globule disease associated tumours, especially breast	
XX	XX	
PS	Claim 12; Page 94; 130pp; English.	

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OM nucleic - nucleic search, using sw model

Run on: December 6, 2004, 13:39:34 ; Search time 2427.45 Seconds
(without alignments)
8980.833 Million cell updates/sec

Title: US-08-836-455-3

Sequence: 1 ATGGAATGACGCTGGCTTT.....CTGTCTCTGGAAGCTTGGG 461

Scoring table: IDENTITY NUC
Gapop 10_0, Gapext 1.0

Searched: 4526729 seqs, 23644849745 residues

Total number of hits satisfying chosen parameters: 9053458

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-Processing: Minimum Match 0%

Maximum Match 100%

Database :

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2: gb_hcg: *
3: gb_in: *
4: gb_om: *
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9: gb_pr: *
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14: gb_vl: *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	461	100.0	461	6	ARI64506
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4	355.2	77.0	471	10	AB050080
5	353.6	76.7	457	10	AY178830
6	337.8	73.3	1542	10	BC002121
7	328.2	71.2	483	10	MM039889
8	327.2	71.0	409	6	BD092129
9	325	70.5	1544	10	MUSIGH1H1
10	324.6	70.4	453	6	ARI09947
11	323	70.1	525	10	MUSIGHALPA
12	323	69.8	540	6	AI3735
13	322	69.8	458	6	I05921
14	322	69.8	458	6	I08811
15	322	69.8	458	6	I09199
16	322	69.8	458	6	MUSIGHXW
17	322	69.8	459	6	ARI41375
18	321.6	69.8	450	10	AY178829
19	320.6	69.5	1553	6	E08434

20	320.2	69.5	902	12	XXU49832	U49832 Synthetic s
21	320	69.4	1683	6	E35543	E35543 Transgenic
22	318.6	69.1	473	10	AB050071	AB050071 Mus muscu
23	314.8	68.3	494	6	BD021876	BD021876 Humanized
24	313.4	68.0	451	10	MM041876	X65773 M. musculus
25	312.6	67.8	534	10	AY621090	AY621090 Mus muscu
26	311.6	67.6	1568	6	E33134	E33134 Humanized a
27	311.6	67.6	1570	6	A22261	A22261 M. musculus
28	311.6	67.6	1570	6	A77138	A77138 Sequence 6
29	311.6	67.5	489	10	MM039900	U39900 Mus musculu
30	310.8	67.4	1526	10	MM055622	AJ555622 Mus muscu
31	310.6	67.4	1573	10	BC018280	BC018280 Mus muscu
32	310.2	67.3	1581	6	A78881	A78881 Sequence 1
33	310.2	67.3	1581	10	MM18C2AA	X70423 M. musculus
34	310	67.2	1570	6	AR029102	AR029102 Sequence
35	310	67.2	1570	6	AR409372	AR409372 Sequence
36	308.6	66.9	1564	10	BC019489	BC019489 Mus muscu
37	308.2	66.9	588	6	A23165	A23165 Artificial
38	308.2	66.9	588	10	MUSIGVAZ	L02346 Mus musculu
39	308	66.8	490	10	MUSIGACITA	M24785 Mouse anti-
40	308	66.8	1558	10	AF466769	AF466769 Mus muscu
41	307	66.6	484	10	MUSIGH4C11	M54977 Mus musculu
42	306.8	66.6	520	10	MM0416332	AJ416332 Mus muscu
43	306.6	66.5	2154	10	BC018315	BC018315 Mus muscu
44	306.6	66.5	2154	10	MM048572	X79907 M. musculus
45	306.2	66.4	1609	10	BC057672	BC057672 Mus muscu

ALIGNMENTS

RESULT 1
LOCUS ARI64506
DEFINITION Sequence 3 from patent US 6274143.
ACCESSION ARI64506
VERSION ARI64506.1 GI:16237556
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 461)
AUTHORS Chatterjee, M. and Foon, K.A.
TITLES Methods of delaying development of HMG-coassociated tumors using anti-idiotypic antibody 11D10
JOURNAL Patent: US 6274143-A 3 14-AUG-2001;
FEATURES
source location/Qualifiers
1..461
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Best Local Similarity 100.0%; Pred. No. 2,6e-146;
Matches 461; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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1 ARI64506
DB 1 ATGGAATGACGCTGGCTTTCTTCTCTCTGTCATTAAGTATGACCTCCAG 60
1 ARI64506
QY 61 GCTTACTACAGAGCTGGGCTGGAGCTGGAGCTGGAGCTGGAGCTGGAGCTGG 120
61 GCTTACTACAGAGCTGGGCTGGAGCTGGAGCTGGAGCTGGAGCTGGAGCTGG 120
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61 GCTTACTACAGAGCTGGGCTGGAGCTGGAGCTGGAGCTGGAGCTGGAGCTGG 120
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DB 181 GACAGAGGCTGGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 240
181 GACAGAGGCTGGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 240
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241 CAGAACTTAAAGGCAAGGCTCATTGACTGACGACACATCTCCAGCAGCAGCTAC 300

Db 241 CAGAACTTTAAGGGCAGGCTCATGTAAGTCAATCCCTCAGACAGAGCTTACATG 300
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Qy 361 GAGGGTGTCTGGAATTAATCTGAGGCTCAAGAACTTCAGTCACTGCTCTCCAGCCAAAACG 420
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Qy 421 ACACCCCAACCCGCTATCACTGGTCCCTGGAAGCTTGGG 461
Db 421 ACACCCCAACCCGCTATCACTGGTCCCTGGAAGCTTGGG 461

RESULT 2
LOCUS BD085738 461 bp DNA linear PAT 27-AUG-2002
DEFINITION Method of delaying development of HMFg-associated tumors using
ACCESSION BD085738
VERSION BD085738.1 GI:22631348
KEYWORDS JP 2001523269-A/2.
SOURCE unidentified
ORGANISM unidentified.
REFERENCE 1 (bases 1 to 461)
AUTHORS Chatterjee,M. and Foon,K.A.
TITLE Methods of delaying development of HMFg-associated tumors using
JOURNAL anti-Idiotype antibody 11D10.
OS THE UNIVERSITY OF KENTUCKY RESEARCH FOUNDATION
COMMENT OS Unidentified
PN JP 2001523269-A/2
PD 20-NOV-2001
PR 12-JUN-1998 JP 199503252
PR 13-JUN-1997 US 60/049540,11-JUN-1998 US 09/096244 PI
MALAYA CHATTERJEE, KENNETH A FOON
PC A61K39/395,A61K39/39//C07K16/42
CC Strandedness: Single;
CC Topology: Linear;
CC Methods of delaying development of HMFg-associated tumors CC
using
CC anti-Idiotype antibody 11D10
FH Key Location/Qualifiers
FT CDS 1..459
FT mat peptide 58.
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Qy 61 GCTTATCTACAGAGCTGGGCTGAGCTGTGAGGCTTGGGCTCAGTAAGATGTCC 120
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Db 301 CAGATCAGAGGCTTACATCTGAAAGACTCTGGGCTATTTCTGTGCAAGAGGAACTGG 360
Qy 361 GAGGGTGTCTGGAATTAATCTGAGGCTCAAGAACTTCAGTCACTGCTCTCCAGCCAAAACG 420
Db 361 GAGGGTGTCTGGAATTAATCTGAGGCTCAAGAACTTCAGTCACTGCTCTCCAGCCAAAACG 420
Qy 421 ACACCCCAACCCGCTATCACTGGTCCCTGGAAGCTTGGG 461
Db 421 ACACCCCAACCCGCTATCACTGGTCCCTGGAAGCTTGGG 461

RESULT 3
LOCUS AF124720 411 bp mRNA linear ROD 22-MAY-2001
DEFINITION Mus musculus immunoglobulin heavy chain mRNA, partial cds.
ACCESSION AF124720
VERSION AF124720.1 GI:14164544
KEYWORDS
SOURCE Mus musculus (house mouse)
ORGANISM Mus musculus
REFERENCE 1 (bases 1 to 411)
AUTHORS Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Scurionath; Muridae; Murinae; Mus. Tripathi,P.K., Qin,H., Bhattacharya-Chatterjee,M., Ceriani,R.L., Foon,K.A. and Chatterjee,S.K.
TITLE Construction and characterization of a chimeric fusion protein consisting of an anti-Idiotype antibody mimicking a breast cancer-associated antigen and the cytokine GM-CSF
JOURNAL Hybridoma 18 (2), 193-202 (1999)
MEDLINE 99306687
PUBMED 10380019
REFERENCE 2 (bases 1 to 411)
AUTHORS Chatterjee,S.K. and Tripathi,P.K.
TITLE Direct Submission
JOURNAL Submitted (29-JUN-1999) Internal Medicine, University of Kentucky, 800 Rose Street, Lexington, KY 40536, USA
FEATURES
source Location/Qualifiers
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/note="anti-Idiotype antibody 11D10; mimics a breast cancer-associated antigen, human fat globule (HMFg)"
/product="immunoglobulin heavy chain"
/protein_id="AAK55119.1"
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ORIGIN
Query Match 88.8%; Score 409.4; DB 10; Length 411;
Best Local Similarity 99.8%; Pred. No. 1.3e-128; Mismatches 1; Indels 0; Gaps 0;
Matches 410; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Qy 1 ATGAATGAGCTGGGCTCTTCTCTCTCCCTGTCAATTAAGAGGTCCACCTCCAG 60
Db 1 ATGAATGAGCTGGGCTCTTCTCTCTCCCTGTCAATTAAGAGGTCCACCTCCAG 60
Qy 61 GCTTATCTACAGAGCTGGGCTGAGCTGTGAGGCTTGGGCTCAGTAAGATGTCC 120
Db 61 GCTTATCTACAGAGCTGGGCTGAGCTGTGAGGCTTGGGCTCAGTAAGATGTCC 120

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OM protein - protein search, using sw model

Run on: December 6, 2004, 13:29:00 ; Search time 54.9832 Seconds
(without alignments)
1517.360 Million cell updates/sec

Title: US-08-836-455-2

Perfect score: 740

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Searched: 1825181 seqs, 575374646 residues

Total number of hits satisfying chosen parameters: 1825181

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries.

Database : UniProt 02:*

1: uniprot_sprot:*

2: uniprot_trembl:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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2	596	80.5	130	1 KV5G_MOUSE	P01639 mus musculu
3	516	69.7	236	2 Q7TMK3	Q7TMK3 mus musculu
4	513	69.3	234	2 Q8R062	Q8R062 mus musculu
5	506	68.4	234	2 Q91WF8	Q91WF8 mus musculu
6	501	67.7	236	2 Q7TS98	Q7TS98 mus musculu
7	492	66.5	233	2 Q91WS9	Q91WS9 mus musculu
8	489	66.1	236	2 Q6GMX9	Q6GMX9 mus musculu
9	475	64.2	236	2 Q6GMX8	Q6GMX8 mus musculu
10	471	63.6	236	2 Q6GMX1	Q6GMX1 mus musculu
11	469	63.4	236	2 Q7Z3Y4	Q7Z3Y4 mus musculu
12	461	62.3	236	2 Q6PIH7	Q6PIH7 mus musculu
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16	460	62.2	234	2 AAH02112	AAH02112 mus muscu
17	452	61.1	117	1 KV5H_MOUSE	P01641 mus musculu
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19	450	60.8	236	2 Q6GMX0	Q6GMX0 mus musculu
20	442	59.7	236	2 Q6PIY5	Q6PIY5 mus sapien
21	442	59.7	236	2 AAH29444	AAH29444 mus sapi
22	433	58.5	214	2 Q9RIAS	Q9RIAS mus musculu
23	426	57.6	236	2 Q6PIH4	Q6PIH4 mus sapien
24	426	57.6	236	2 AAH34146	AAH34146 mus sapi
25	416.5	56.3	99	2 AAH1068	AAH1068 mus muscu
26	416	56.2	234	2 AAH30813	AAH30813 mus sapi
27	412	55.7	128	1 KV5E_MOUSE	P01637 mus musculu
28	408	55.1	111	2 AAR1092	AAR1092 mus muscu
29	394	53.2	129	1 KVIW_HUMAN	P04431 mus sapien
30	394	53.2	235	2 Q6GMV9	Q6GMV9 mus sapien
31	393.5	53.2	235	2 Q6GMV9	Q6GMV9 mus sapien

32	391.5	52.9	239	2 Q8K0F8	Q8K0F8 mus musculu
33	390.5	52.8	235	2 Q7TMK0	Q7TMK0 mus musculu
34	389.5	52.6	235	2 Q6GMX0	Q6GMX0 mus sapien
35	389	52.6	108	1 KV5J_MOUSE	P01643 mus musculu
36	384.5	52.0	235	2 Q6PIJ2	Q6PIJ2 mus sapien
37	384.5	52.0	235	2 AAH16380	AAH16380 mus sapi
38	384	51.9	108	1 KV5K_MOUSE	P01644 mus musculu
39	383	51.8	108	1 KV5O_MOUSE	P01648 mus musculu
40	382.5	51.7	235	2 Q91W12	Q91W12 mus musculu
41	382	51.6	108	1 KV5N_MOUSE	P01647 mus musculu
42	382	51.6	108	1 KV5N_MOUSE	P01647 mus musculu
43	382	51.6	236	2 Q6PS58	Q6PS58 mus sapien
44	382	51.6	236	2 AAH62704	AAH62704 mus sapi
45	381	51.5	117	1 KVI1_HUMAN	P01601 mus sapien

ALIGNMENTS

RESULT 1	ID	Query Match	Length	ID	Description
0925S9	AC	Q925S9	PRELIMINARY;	PRT;	127 AA.
DT	01-DEC-2001	(TREMBLrel. 19, Created)			
DT	01-DEC-2001	(TREMBLrel. 19, Last sequence update)			
DT	01-OCT-2003	(TREMBLrel. 25, Last annotation update)			
DE	Immunoglobulin light chain (fragment).				
OS	Mus musculus (mouse).				
OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;				
OC	Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.				
OX	NCBI_Taxid=10090;				
RN	[1]	SEQUENCE FROM N.A.			
RP	STRAIN=BALB/c;				
RC	MDLINE=9306687; Pubmed=10380019;				
RA	Tripathi P.K., Qin H., Bhattacharya-Chatterjee M., Ceriani R.L.,				
RA	Poon K.A., Chatterjee S.K.;				
RT	"construction and characterization of a chimeric fusion protein				
RT	consisting of an anti-idiotype antibody mimicking a breast cancer-				
RT	associated antigen and the cytokine GM-CSF."				
RL	Hybridoma 18:193-202(1999).				
DR	EMBL; AF124721; AAK55120.1; -				
DR	InterPro; IPR007110; Ig-like.				
DR	InterPro; IPR003596; Ig_v.				
DR	Pfam; PF00047; Ig_1.				
DR	SMART; SM00406; IgV_1.				
DR	PROSITE; PS50835; IG_LIKE; 1.				
FT	NON TER	127			
SO	SEQUENCE	127 AA; 13794 MW; 13F61BBB981FAS CRC64;			
Query Match		86.8%; Score 642; DB 2; Length 127;			
Best Local Similarity		99.2%; Pred. No. 7.4e-55;			
Matches	126; Conservative	0; Mismatches	1; Indels	0; Gaps	0;
Qy	1	MGAPAIIGLFLLLFPCTRCIDQMTSPSSLSLGGVSLTCRAADIGINLHWIQGP	60		
Db	1	MRAPAIIGLFLLLFPCTRCIDQMTSPSSLSLGGVSLTCRAADIGINLHWIQGP	60		
Qy	61	DGTRIKLIYATSSLSGVPKRFSGRSRGSYSLTISLSSEDFVAYVCQYASSPYTFGG	120		
Db	61	DGTRIKLIYATSSLSGVPKRFSGRSRGSYSLTISLSSEDFVAYVCQYASSPYTFGG	120		
Qy	121	GTGLRIK 127			
Db	121	GTGLRIK 127			
RESULT 2					
KV5G_MOUSE	STANDARD;	PRT;	130 AA.		
ID	P01639; P01640;				
AC	21-JUL-1986 (Rel. 01, Created)				
DT	21-JUL-1986 (Rel. 01, Last sequence update)				

DT 05-JUL-2004 (Rel. 44, last annotation update)
 DE Ig kappa chain V-V region MOPC 41 precursor.
 OS Mus musculus (Mouse).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 OX NCBI_TaxID=10090;
 RN [1]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=79221900; PubMed=111146;
 RA Seidman U.G., Max E.E., Leder P.;
 RT "A kappa-immunoglobulin gene is formed by site-specific recombination
 RT without further somatic mutation.";
 RL Nature 280:370-375 (1979).
 RN [2]
 RP SEQUENCE OF 1-33.
 RX MEDLINE=77148916; PubMed=403522;
 RA Burestein Y., Schechter I.;
 RT "Amino acid sequence of the NH2-terminal extra piece segments of the
 RT precursors of mouse immunoglobulin lambda1-type and kappa-type light
 RT chains.";
 RL Proc. Natl. Acad. Sci. U.S.A. 74:716-720 (1977).
 RN [3]
 RP SEQUENCE OF 23-130.
 RX MEDLINE=67056897; PubMed=4162931;
 RA Gray W.R., Dreyer W.J., Hood L.;
 RT "Mechanism of antibody synthesis: size differences between mouse kappa
 RT chains.";
 RL Science 155:465-467 (1967).
 CC -1- MISCELLANEOUS: This precursor was synthesized in a cell-free
 CC system directed by mRNA isolated from myeloma polyclones.
 CC -1- MISCELLANEOUS: This is a Bence-Jones protein.
 DR PIR; A93211; KXMSM4.
 DR HSSP; P01594; IJVS.
 DR InterPro; IPR007110; Ig-1like.
 DR Pfam; PF00047; Ig_1.
 DR SMART; SM00406; IGV_1.
 DR PROSITE; PS50835; IG_LIKE; 1.
 KW Bence-Jones protein; Direct protein sequencing;
 KW Immunoglobulin V region; Signal.
 FT SIGNAL 1 22
 FT CHAIN 23 130 Ig kappa chain V-V region MOPC 41.
 FT DOMAIN 23 45 Framework-1.
 FT DOMAIN 46 56 Complementarity-determining-1.
 FT DOMAIN 57 71 Framework-2.
 FT DOMAIN 72 78 Complementarity-determining-2.
 FT DOMAIN 111 119 Framework-3.
 FT DOMAIN 120 129 Complementarity-determining-3.
 FT DISULFID 45 110 Framework-4.
 FT VARIANT 1 2 By similarity.
 FT NON_TER 130 130 Missing (in 25% of the molecules).
 SQ SEQUENCE 130 AA; 14311 MW; 58FE0FE71D5F1BEC CRC64;

Query Match 80.5%; Score 596; DB 1; Length 130;
 Best Local Similarity 92.2%; Pred. No. 2.4e-50;
 Matches 118; Conservative 4; Mismatches 6; Indels 0; Gaps 0;

QY 1 MGAPQIIGFLLLPFGTRCDIOMTQSPSSLSASLGQVSLTCRASODIGINLHWLQOEP 60
 DB 3 MRAPQIFGFLILFGTRCDIOMTQSPSSLSASLGQVSLTCRASODIGINLHWLQOEP 62
 QY 61 DGTIRLIYATSSLSGVPKRPSSGSGSDVLTSSLSSEDFPVAAYYCLQVASSPYTGG 120
 DB 63 DGTIRLIYATSSLSGVPKRPSSGSGSDVLTSSLSSEDFPVAAYYCLQVASSPYTGG 122
 QY 121 GTKLEIKR 128
 DB 123 GTKLEIKR 130

RESULT 3
 Q7TMK3

ID AC Q7TMK3 PRELIMINARY; PRT; 236 AA.
 DT 01-OCT-2003 (T-EMBLrel. 25, Created)
 DT 01-OCT-2003 (T-EMBLrel. 25, Last sequence update)
 DT 01-MAR-2004 (T-EMBLrel. 26, Last annotation update)
 DE Hypothetical protein.
 OS Mus musculus (Mouse).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 OX NCBI_TaxID=10090;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=CZECH II;
 RX TISSUE=Mammary tumor metastasized to lung. Tumor arose spontaneously;
 RX MEDLINE=22388257; PubMed=12477932;
 RA Strausberg R.L., Peingold E.A., Grouse L.H., Derge J.G.,
 RA Klausner R.D., Collins F.S., Wagner L., Sherman C.M., Schuler G.D.,
 RA Hopkins R.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
 RA Datchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
 RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
 RA Raha S.S., Loggellano N.A., Peters G.J., Abramson R.D., Mullaly S.J.,
 RA Boeak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
 RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hultk S.W.,
 RA Villalón D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
 RA Fahy J., Hellon E., Kettelman M., Madan A., Rodriguez S., Sanchez A.,
 RA Whitting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
 RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
 RA Rodriguez A.C., Grinstead J., Schmutz J., Myers R.M., Butlerfield Y.S.,
 RA Krzywinski M.I., Skalska U., Smalins D.E., Scherch A., Schein J.E.,
 RA Jones S.J., Maitra M.A.;
 RT "Generation and initial analysis of more than 15,000 full-length human
 RT and mouse cDNA sequences.";
 RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903 (2002).
 RN [2]
 RP SEQUENCE FROM N.A.
 RC STRAIN=CZECH II;
 RX TISSUE=Mammary tumor metastasized to lung. Tumor arose spontaneously;
 RA Strausberg R.;
 RL Submitted (AUG-2003) to the EMBL/GenBank/DBJ databases.
 DR EMBL; BC055906; AAH55906.1; -;
 DR InterPro; IPR007110; Ig-1like.
 DR InterPro; IPR003597; Ig_c1.
 DR InterPro; IPR003006; IG_MHC.
 DR InterPro; IPR003596; IG_v.
 DR Pfam; PF07654; C1-set; 1.
 DR Pfam; PF00047; IGV_1.
 DR SMART; SM00406; IGV_1.
 DR PROSITE; PS50835; IG_LIKE; 2.
 DR PROSITE; PS00290; IG_MHC; UNKNOWN_1.
 KW Hypothetical protein.
 SQ SEQUENCE 236 AA; 26299 MW; 0DB03488AAA6396F CRC64;

Query Match 69.7%; Score 516; DB 2; Length 236;
 Best Local Similarity 71.3%; Pred. No. 3.3e-42;
 Matches 102; Conservative 12; Mismatches 29; Indels 0; Gaps 0;

QY 1 MGAPQIIGFLLLPFGTRCDIOMTQSPSSLSASLGQVSLTCRASODIGINLHWLQOEP 60
 DB 3 MRAPQIFGFLILFGTRCDIOMTQSPSSLSASLGQVSLTCRASODIGINLHWLQOEP 62
 QY 61 DGTIRLIYATSSLSGVPKRPSSGSGSDVLTSSLSSEDFPVAAYYCLQVASSPYTGG 120
 DB 63 WSKPKLIYATSSLSGVPKRPSSGSGSDVLTSSLSSEDFPVAAYYCLQVASSPYTGG 122
 QY 121 GTKLEIKRADAAPTVSIIPSSK 143
 DB 123 GTKLEIKRADAAPTVSIIPSSK 145

RESULT 4
 Q8R062

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: December 6, 2004, 13:29:00 ; Search time 14.5973 Seconds
(without alignments)
955.753 Million cell updates/sec

Title: US-08-836-455-2

Sequence: 1 MGAHPAQLIGFLLLFPQTRC.....IKRADAAPVYSIRPSSKLG 145

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 283416 seqs, 9621673 residues

Total number of hits satisfying chosen parameters: 283416

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database :

1: PIR 79:.*
2: PIR2:.*
3: PIR3:.*
4: PIR4:.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	596	80.5	130	1	IG kappa chain pre
2	501	67.7	106	2	IG kappa chain V r
3	497	67.2	106	2	IG kappa chain V r
4	496	67.0	234	2	IG kappa chain pre
5	478	64.6	129	2	IG kappa chain pre
6	459	62.0	106	2	IG kappa chain V r
7	452	61.1	117	1	IG kappa chain pre
8	447	60.4	234	2	IG kappa chain pre
9	445	60.1	108	4	IG kappa chain pre
10	443	59.9	128	4	IG kappa chain pre
11	439	59.3	127	2	IG kappa chain pre
12	438	59.2	129	2	IG kappa chain pre
13	435	58.8	98	2	IG kappa chain - h
14	435	58.8	126	2	IG kappa chain V r
15	434	58.6	125	2	IG kappa chain V-J
16	434	58.6	130	2	IG kappa chain - h
17	433	58.5	129	2	IG kappa chain - h
18	431	58.2	122	2	IG kappa chain pre
19	429	58.0	141	2	IG kappa chain V-I
20	428.5	57.9	230	2	IG kappa chain - s
21	428	57.8	129	2	IG kappa chain - h
22	426	57.6	127	2	IG kappa chain - h
23	425	57.4	132	2	IG kappa chain V r
24	424	57.3	115	2	IG kappa chain - h
25	422	57.0	123	2	IG kappa chain pre
26	419	56.6	88	2	IG kappa chain V r
27	419	56.6	129	2	IG kappa chain V r
28	419	56.6	131	2	IG kappa chain V-J
29	418	56.5	125	2	IG kappa chain V-J

30	418	56.5	127	2	IG kappa chain V-J
31	416	56.2	129	2	IG kappa chain V r
32	415	56.1	128	2	IG kappa chain var
33	413	55.8	125	2	IG kappa chain V-J
34	412	55.7	128	1	IG kappa chain pre
35	410	55.4	123	2	IG kappa chain - h
36	410	55.4	123	2	IG kappa chain V r
37	409	55.3	128	2	IG kappa chain pre
38	407	55.0	101	2	IG kappa chain V r
39	407	55.0	101	2	IG kappa chain V r
40	405	54.7	125	2	IG kappa chain - h
41	405	54.7	126	2	IG kappa chain V-J
42	403.5	54.5	125	2	IG kappa chain pre
43	402	54.3	144	2	IG kappa chain pre
44	400.5	54.1	125	2	IG kappa chain - h
45	400	54.1	129	2	IG kappa chain V r

ALIGNMENTS

RESULT 1
KVM5M4
IG kappa chain precursor V region (MOPC 41) - mouse
N/Contains: IG kappa chain precursor V region VK41
C/Species: Mus musculus (house mouse)
C/Date: 24-Apr-1984 #sequence_revision 24-Apr-1984 #ext_change 09-Jul-2004
C/Accession: A93211; B93211; A93815; A94239; A01922; A01923
R/Seidman, J.G.; Max, R.E.; Leder, P.
Nature 280, 370-375, 1979
A/Title: A kappa-immunoglobulin gene is formed by site-specific recombination without f
A/Reference number: A93211; M01D:79221900; E01D:111146
A/Accession: A93211
A/Molecule type: DNA
A/Residues: 1-130 <PC41>
A/Cross-references: UNIPROT:P01639
A/Accession: B93211
A/Molecule type: DNA
A/Residues: 1-117 <VK41>
A/Cross-references: GB:J00804; GB:J00566; NID:952127; PIDN:CA24186.1; PID:9575660
A/Note: The sequences were determined from the differentiated gene MOPC 41 and the germ
R/Burstein, V.; Schechter, I.
Proc. Natl. Acad. Sci. U.S.A. 74, 716-720, 1977
A/Title: Amino acid sequence of the NH-2-terminal extra piece segments of the precursor
A/Reference number: A93815; M01D:77148916; E01D:403522
A/Accession: A93815
A/Molecule type: protein
A/Residues: 1-33 <BUR>
A/Note: Met-3 is apparently used as an alternative initiator in 25% of the chains
R/Gray, W.R.; Dreyer, W.J.; Hood, L.
Science 155, 465-467, 1967
A/Title: Mechanism of antibody synthesis: size differences between mouse kappa chains.
A/Reference number: A94239; M01D:67056897; E01D:416231
A/Accession: A94239
A/Molecule type: protein
A/Residues: 23-49, 'B', '51-53', 'USB', '57-58', 'ZZ', '61-62', 'BZ', '65-76', 'B', '78-108', '110-130' <GNA>
A/Experimental source: Bence Jones protein MOPC 41
C/Genetics:
A/Introns: 19/1
C/Complex: An immunoglobulin heterotrimer subunit consists of two identical light (kappa) chain disulfide bonds. In some cases, such as IGA and IGM, the subunits associate into 1
C/Superfamily: Immunoglobulin V region; immunoglobulin homology
C/Keywords: alternative initiators; heterotrimer; immunoglobulin
F/1-22/Domain: signal sequence #status experimental <SIG1>
F/3-22/Domain: signal sequence #status experimental <SIG2>
F/3-130/Product: IG kappa chain V region (MOPC 41) #status experimental <M41>
F/38-112/Domain: immunoglobulin homology <IMM>
F/45-110/Disulfide Bonds: #status predicted

Query Match 80.5%; Score 596; DB 1; Length 130;
Best Local Similarity 92.2%; Pred. No. 1.5e-42;
Matches 118; Conservative 4; Mismatches 6; Indels 0; Gaps 0;

QY 1 KGAPOIGFLLLLPSTRCDIQMOSPESLSASIGQRVSLTCRASODIGINLHMLQCEP 60
Db 3 MRAPQIGFLLLLQSTRCDIQMOSPESLSASIGQRVSLTCRASODIGSSINMLQCEP 62
QY 61 DGTIRRLLYAATSSLSGVPKRPFGSRSGSDYSLTTSLESEDFVAYYCICLOVASPYTFGG 120
Db 63 DGTIRRLLYAATSSLSGVPKRPFGSRSGSDYSLTTSLESEDFVAYYCLOVASPYTFGG 122
QY 121 GTKLEIKR 128
Db 123 GTKLEIKR 130

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RESULT 2
PL0260
Ig kappa chain V region (anti-DNA, DPTVK) - mouse (fragment)
C,Species: Mus musculus (house mouse)
C,Date: 16-Sep-1992 #sequence_revision 16-Sep-1992 #text_change 21-Jan-2000
C,Accession: PL0260
R,Shlomchik, M.; Mascelli, M.; Shan, H.; Radic, M.Z.; Pletscky, D.; Marshak-Rothstein, J.
J. Exp. Med. 171, 265-297, 1990
A,Title: Anti-DNA antibodies from autoimmune mice arise by clonal expansion and somatic
A,Reference number: PL0231, MUID:90111618, PMID:2104919
A,Accession: PL0260
A,Molecule type: mRNA
A,Residues: 1-106 <SHL>
C,Superfamily: immunoglobulin V region; immunoglobulin homology
C,Keywords: heterodimer; immunoglobulin
F,1-23/Region: framework 1
F,16-90/Domain: immunoglobulin homology <IMW>
F,24-34/Region: complementarity-determining 1
F,35-49/Region: framework 2
F,50-56/Region: complementarity-determining 2
F,57-88/Region: framework 3
F,89-97//Region: complementarity-determining 3
F,98-106/Region: framework 4

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	67.7%;	Score 501;	DB 2;	Length 106;
Query Match	93.4%;	Pred. No.	8.9e-35;	
Best Local Similarity	4;	Mismatches	3;	Gaps 0;
Matches	99;	Conservative		
QY	21	D QMTPSPSSASLIGCRVSLTCRASDIDGINTLMLOEEDGTIKKLIYAATSLSGAVPK	80	
			:	
Db	1	D QMTPSPSSASLIGERVSILTCRASPDIDSSLMTLMQEBDDGTIKKLIYAATSLSDGPVK	60	
QY	81	RFGSGRSGSDIYSLTISLSEDEFAVAYCLOYASSPYTFGGGTLEI	126	
Db	61	RFGSGRSGSDIYSLTISLSEDEFVDIYCLOYASSPWTFGGGTLEI	106	

RESULT 3
P10259
Ig kappa chain V region (anti-DNA, DP11VK) - mouse (fragment)
C/Specter: Mus musculus (house mouse)
C/Date: 16-Sep-1992 #sequence_revision 16-Sep-1992 #text_change 21-Jan-2000
C/Accession: P10259
R/Shlomchik, M.; Mascelli, M.; Shan, H.; Radic, M.Z.; Pisetsky, D.; Marshak-Rothstein, A.
J. Exp. Med. 171, 265-297, 1990
A/Title: Anti-DNA antibodies from autoimmune mice arise by clonal expansion and somatic
A/Reference number: P10231, MUID:90111618, PMID:2104919
A/Accession: P10259
A/Molecule type: mRNA
A/Residues: 1-106 <SHL>
C/Superfamily: immunoglobulin V region; immunoglobulin homology
C/Keywords: heterodimer; immunoglobulin
F/1-23/Region: framework 1
F/16-90/Domain: immunoglobulin homology <IMM>
F/24-34/Region: complementarity-determining 1
F/35-49/Region: framework 2
F/50-56/Region: complementarity-determining 2
F/57-88/Region: framework 3
F/89-97/Region: complementarity-determining 3
F/98-106/Region: framework 4

Query Match	67.2%	Score 497	DB 2	Length 106
Best local Similarity	92.5%	Pred. No. 1.9e-34		
Matches	98	Conservative 5	Mismatches 5	Indels 0
			Gaps 0	
QY	21	DIOMQSSSSLSASIGQVSVLTCRASDIDGINLHMLQOEPGTTIKRLIYATSSIGSGVVK	80	
Db	1	DIOMQSSSSLSASIGERVSILTCRASDIDGSLNMLQOEPGTTIKRLIYATSSLDGVPK	60	
QY	81	RFGSGRSGDYLSTTSSLESEDFAVAYCLOAYASSPYTPFGGKTLEI	126	
Db	61	RFGSGRSGDYLSTTSSLESEDFAVYCYCLOAYATSPWTFGGGKTLEI	106	

RESULT 4
S14237
Ig kappa chain precursor (15C5) - mouse
C1Species: Mus musculus (house mouse)
C1Date: 25-Feb-1994 #sequence_revision 10-Nov-1995 #text_change 21-Jan-2000
C1Accession: S14237
R1Vandamme, A.M.; Bulens, F.; Bernar, H.; Nelles, L.; Lijnen, R.H.; Collen, D.
Eur. J. Biochem. 192, 767-775, 1990
A1Title: Construction and characterization of a recombinant murine monoclonal antibody d
A1Reference number: S14236; MUID:91006173; PMID:2209622
A1Accession: S14237
A1Molecule type: mRNA
A1Residues: 1-234 <VANI>
A1Cross-references: EMBL:X56394; NID:g51622; PIDD:CAA39805.1; PID:g51623
C1Superfamily: immunoglobulin V region; immunoglobulin homology
C1Keywords: heterotetramer; immunoglobulin
I136-110/Domain: immunoglobulin homology <IMM>

Query Match 67.0%; Score 496; DB 2; Length 234;
Best Local Similarity 68.5%; Pred. No. 5.1e-34;
Matches 98; Conservative 15; Mismatches 30; Indels 0; Gaps 0;

```

QY      1  MGAPAILTEFLLLPFGTCDILOMOMQSSSLASLIGQGVSLTCASODIGINLHMLQOEP  60
Db      1  MRPAPGFLGILLMFPFGIKCDIKOMQSSSMYALGGRVYITCASODINSYLSWIDQKP  60
QY      61  DGTIKRLIATSLSGVDPKPSGSGSDSVSLTSSLESFDPAYYICLOYASPYTFGG  120
Db      61  GNSPKTLIRGKRVLAVGVPSPRSQSGSQDYSLTSSLEVEDGVYCLRYDEPPTFGS  120
QY      121  GTKLEIKRADAAAPTVSIFPPSSK  143
Db      121  GTKLEIKRADAAAPTVSIFPPSSS  143

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RESULT 5
D32513
Ig kappa chain precursor V region (BXMI6) - mouse
C|Species: Mus musculus (house mouse)
C|Date: 21-May-1990 #sequence_revision 31-Dec-1990 #text_change 21-Jan-2000
C|Accession: D32513
R|Kofler, R.; Strohal, R.; Balderas, R.S.; Johnson, M.E.; Noonan, D.J.; Duchosal, M.A.;
J. Clin. Invest. 82, 852-860, 1988
A|Title: Immunoglobulin kappa light chain variable region gene complex organization and
A|Reference number: A94689; MUID:88331394; PMID:3138286
A|Accession: D32513
A|Molecule type: DNA
A|Residues: 1-129 <KOF>
A|Cross-references: GB:M20832; NID:g196941; PIDN:AAA38845.1; PID:g196942
C|Superfamily: Immunoglobulin V region; immunoglobulin homology
C|Keywords: heterotetramer; immunoglobulin
|38-112|Domain: immunoglobulin homology <IMW>

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Query Match      64.6%; Score 478; DB 2; Length 129;
Best Local Similarity 76.8%; Pred. No. 8,7e-33;
Matches 96; Conservative 6; Mismatches 23; Indels 0; Gaps 0;

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GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: December 6, 2004, 13:34:19 ; Search time 185.386 Seconds

(without alignments)
278.934 Million cell updates/sec

Title: US-08-836-455-2

Sequence: 1 MGAPAIILGFLILFPCTRC.....IKRADAPVYSIRPSSKLG 145

Scoring table:

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Gapop 10.0 , Gapext 0.5

Total number of hits satisfying chosen parameters: 1582122

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Published Applications AA:*

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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
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2	740	100.0	145	14	US-10-367-506-2
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4	626	84.6	144	16	US-10-642-060-4
5	626	84.6	144	16	US-10-642-122-4
6	626	84.6	144	16	US-10-642-124-4
7	626	84.6	144	16	US-10-621-269-4
8	626	84.6	144	16	US-10-620-850-4
9	626	84.6	144	17	US-10-642-118-4
10	626	84.6	144	17	US-10-642-117-4
11	626	84.6	144	17	US-10-642-119-4
12	626	84.6	144	17	US-10-642-099-4
13	601	81.2	130	8	US-08-779-784-35

14	601	81.2	130	14	US-10-010-729-71	Sequence 71, Appl
15	541	73.1	130	14	US-10-268-883-11	Sequence 11, Appl
16	518	70.0	129	8	US-08-973-518-2	Sequence 2, Appl1
17	518	70.0	129	9	US-09-007-093-2	Sequence 2, Appl1
18	518	70.0	129	14	US-10-428-754-2	Sequence 4, Appl1
19	510	68.9	108	14	US-10-010-729-45	Sequence 45, Appl1
20	507	68.5	243	9	US-09-887-853-6	Sequence 6, Appl1
21	506	68.4	108	9	US-09-924-099-1	Sequence 1, Appl1
22	505	68.2	252	15	US-10-239-656-55	Sequence 55, Appl
23	505	68.2	499	15	US-10-239-656-73	Sequence 73, Appl
24	503	68.0	108	16	US-10-307-276B-4	Sequence 4, Appl1
25	503	68.0	108	16	US-10-803-622-267	Sequence 267, App
26	503	68.0	108	16	US-10-803-653-267	Sequence 48, Appl
27	502	67.8	236	15	US-10-038-591-48	Sequence 48, Appl
28	502	67.8	236	17	US-10-775-444A-48	Sequence 9, Appl1
29	502	67.8	237	9	US-09-924-099-9	Sequence 48, Appl
30	502	67.8	243	9	US-09-924-099-10	Sequence 48, Appl
31	502	67.8	257	15	US-10-239-656-67	Sequence 10, Appl
32	501	67.7	234	16	US-10-684-109-97	Sequence 97, Appl
33	496	67.0	109	9	US-09-943-906-74	Sequence 74, Appl
34	496	67.0	109	14	US-10-435-602-74	Sequence 74, Appl
35	494	66.8	236	15	US-10-038-591-52	Sequence 52, Appl
36	494	66.8	236	17	US-10-775-444A-52	Sequence 52, Appl
37	493	66.6	234	16	US-10-684-109-115	Sequence 115, App
38	488	65.9	234	16	US-10-684-109-91	Sequence 91, Appl
39	488	65.9	234	16	US-10-684-109-109	Sequence 109, App
40	486	65.7	234	16	US-10-684-109-103	Sequence 103, App
41	479	64.7	148	14	US-10-222-026A-25	Sequence 25, Appl
42	479	64.7	287	14	US-10-222-026A-37	Sequence 37, Appl
43	475	64.2	236	15	US-10-038-591-51	Sequence 51, Appl
44	475	64.2	236	17	US-10-775-444A-51	Sequence 51, Appl
45	474	64.1	234	14	US-10-292-088-24	Sequence 24, Appl

ALIGNMENTS

RESULT 1	
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Sequence 2, Appl1	
Patent No. US20020098190A1	
GENERAL INFORMATION:	
APPLICANT: Malaya CHATTERJEE	
APPLICANT: Kenneth A. FOON	
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR TREATING	
FILE REFERENCE: 304142000620	
CURRENT APPLICATION NUMBER: US/09/861,294	
CURRENT FILING DATE: 2001-05-17	
PRIOR APPLICATION NUMBER: 60/049,540	
PRIOR FILING DATE: 1997-06-13	
PRIOR APPLICATION NUMBER: 09/096,244	
PRIOR FILING DATE: 1998-06-11	
NUMBER OF SEQ ID NOS: 38	
SOFTWARE: PatsSeq for Windows Version 4.0	
SEQ ID NO 2	
LENGTH: 145	
TYPE: PRT	
ORGANISM: Mus musculus	
FEATURE:	
NAME/KEY: SIGNAL	
LOCATION: (1)...(20)	
US-09-861-294-2	
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Matches 145; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	
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Db	
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Qy	
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Db      61 DGTIKRLIYATSSLSGSGVPRKFRSGSGSDYSLTISLESSEDFVAYYCLQYASSPYTFGG 120
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Db      121 GTKLEIKRADAAPTVSIFFPSSSKLG 145
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; Sequence 2, Application US/10367506
; Publication No. US20030152575A1
; GENERAL INFORMATION:
; APPLICANT: Malaya CHARTERJEE
; APPLICANT: Kenneth A. Foon
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR TREATING
; FILE OF INVENTION: TUMORS BEARING HMGF AND CEA ANTIGENS
; FILE REFERENCE: 304142000620
; CURRENT APPLICATION NUMBER: US/10/367,506
; PRIOR FILING DATE: 2003-02-13
; PRIOR APPLICATION NUMBER: US/09/861,294
; PRIOR FILING DATE: 2001-05-17
; PRIOR APPLICATION NUMBER: 60/049,540
; PRIOR FILING DATE: 1997-06-13
; PRIOR APPLICATION NUMBER: 09/096,244
; PRIOR FILING DATE: 1998-06-11
; NUMBER OF SEQ ID NOS: 38
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 145
; TYPE: PRT
; ORGANISM: Mus musculus
; FEATURE:
; NAME/KEY: SIGNAL
; LOCATION: (1)...(20)
US-10-367-506-2
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Db      121 GTKLEIKRADAAPTVSIFFPSSSKLG 145
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; Sequence 4, Application US/10642120
; Publication No. US20040131610A1
; GENERAL INFORMATION:
; APPLICANT: Thorpe, Philip E.
; APPLICANT: Soares, M. Melina
; APPLICANT: Ran, Sophia
; TITLE OF INVENTION: Methods for Treating Viral Infections Using Antibodies to
; FILE REFERENCE: 4001,002900
; CURRENT APPLICATION NUMBER: US/10/642,120
; PRIOR FILING DATE: 2003-08-15
; PRIOR APPLICATION NUMBER: US 10/621,269
; PRIOR FILING DATE: 2003-07-15
; PRIOR APPLICATION NUMBER: 60/396,263
; PRIOR FILING DATE: 2002-07-15
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: PatentIn version 3.1
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; SEQ ID NO 4
; LENGTH: 144
; TYPE: PRT
; ORGANISM: Mus musculus
US-10-642-120-4
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; Sequence 4, Application US/10642060
; Publication No. US20040131621A1
; GENERAL INFORMATION:
; APPLICANT: Thorpe, Philip E.
; APPLICANT: Soares, M. Melina
; APPLICANT: Ran, Sophia
; TITLE OF INVENTION: Combinations and Kits for Treating Viral Infections Using Antibod
; FILE REFERENCE: 4001,002982
; CURRENT APPLICATION NUMBER: US/10/642,060
; PRIOR FILING DATE: 2003-08-15
; PRIOR APPLICATION NUMBER: US 10/621,269
; PRIOR FILING DATE: 2003-07-15
; PRIOR APPLICATION NUMBER: 60/396,263
; PRIOR FILING DATE: 2002-07-15
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 4
; LENGTH: 144
; TYPE: PRT
; ORGANISM: Mus musculus
US-10-642-060-4
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Best Local Similarity 90.6%; Pred. No. 2,5e-45;
Matches 125; Conservative 4; Mismatches 9; Indels 0; Gaps 0;
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Db      123 GTKLEIKRADAAPTVIF 140
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RESULT 5

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US-10-642-122-4
; Sequence 4, Application US/10642122
; Publication No. US20040131622A1
; GENERAL INFORMATION:
; APPLICANT: Thorpe, Philip E.
; APPLICANT: Soares, M. Melina
; APPLICANT: Ran, Sophia
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GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: December 6, 2004, 15:14:29 ; Search time 649.102 Seconds
(without alignments)
3682.388 Million cell updates/sec

Title: US-08-836-455-1

Perfect score: 435
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Searched: 3694831 seqs, 274740616 residues

Total number of hits satisfying chosen parameters: 7389662

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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Published Applications NA:*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
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2	435	100.0	435	15	US-10-567-506-1
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4	372.4	85.6	435	17	US-10-642-120-3
5	372.4	85.6	435	17	US-10-642-060-3
6	372.4	85.6	435	17	US-10-642-122-3
7	372.4	85.6	435	17	US-10-642-124-3
8	372.4	85.6	435	17	US-10-621-269-3
9	372.4	85.6	435	17	US-10-620-850-3
10	372.4	85.6	435	18	US-10-642-118-3
11	372.4	85.6	435	18	US-10-642-117-3
12	372.4	85.6	435	18	US-10-642-119-3

13	372.4	85.6	435	18	US-10-642-099-3	Sequence 3, Appl1
14	372	85.5	402	8	US-08-779-784-5	Sequence 5, Appl1
15	372	85.5	402	15	US-10-010-729-5	Sequence 10, Appl1
16	329.6	75.8	390	15	US-10-268-883-10	Sequence 1, Appl1
17	323.4	74.3	387	8	US-08-973-518-1	Sequence 1, Appl1
18	323.4	74.3	387	9	US-09-007-093-1	Sequence 17, Appl1
19	323.4	74.3	387	15	US-10-428-754-1	Sequence 1, Appl1
20	323.2	74.2	351	8	US-08-779-784-17	Sequence 1, Appl1
21	322.6	74.2	351	8	US-08-779-784-16	Sequence 1, Appl1
22	311.2	71.5	324	15	US-10-010-729-46	Sequence 46, Appl1
23	309.4	71.1	729	9	US-09-887-853-5	Sequence 5, Appl1
24	308.4	70.9	729	9	US-09-924-099-20	Sequence 20, Appl1
25	307.4	70.7	711	9	US-09-924-099-19	Sequence 19, Appl1
26	306.4	70.4	324	9	US-09-924-099-11	Sequence 11, Appl1
27	301.4	69.3	756	16	US-10-239-656-54	Sequence 54, Appl1
28	301.4	69.3	771	16	US-10-239-656-66	Sequence 66, Appl1
29	301.4	69.3	1497	16	US-10-239-656-72	Sequence 72, Appl1
30	292	67.1	324	17	US-10-307-276B-2	Sequence 2, Appl1
31	284.4	65.4	456	15	US-10-222-026A-26	Sequence 26, Appl1
32	282.4	64.9	867	15	US-10-222-026A-18	Sequence 38, Appl1
33	268.4	61.7	453	16	US-10-395-894-24	Sequence 24, Appl1
34	268.4	61.7	463	17	US-10-695-667-24	Sequence 24, Appl1
35	268.4	61.7	702	17	US-10-684-109-89	Sequence 89, Appl1
36	268.4	61.7	702	17	US-10-684-109-90	Sequence 90, Appl1
37	268.4	61.7	702	17	US-10-684-109-95	Sequence 95, Appl1
38	268.4	61.7	702	17	US-10-684-109-96	Sequence 96, Appl1
39	268.4	61.7	702	17	US-10-684-109-107	Sequence 107, Appl1
40	268.4	61.7	702	17	US-10-684-109-108	Sequence 108, Appl1
41	268.4	61.7	702	17	US-10-684-109-113	Sequence 113, Appl1
42	268.4	61.7	702	17	US-10-684-109-114	Sequence 114, Appl1
43	268.4	61.7	6082	16	US-10-395-894-10	Sequence 10, Appl1
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ALIGNMENTS

RESULT 1

US-09-861-294-1

Sequence 1, Application US/09861294

Patent No. US20020098190A1

GENERAL INFORMATION:

APPLICANT: Malaya CHARTERJEE

APPLICANT: Kenneth A. FOON

TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR TREATING TUMORS BEARING HMGF AND CEA ANTIGENS

FILE REFERENCE: 30414200620

CURRENT APPLICATION NUMBER: US/09/861.294

CURRENT FILING DATE: 2001-05-17

PRIOR APPLICATION NUMBER: 60/049.540

PRIOR FILING DATE: 1997-06-13

PRIOR APPLICATION NUMBER: 09/096.244

PRIOR FILING DATE: 1998-06-11

NUMBER OF SEQ ID NOS: 38

SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 1

LENGTH: 435

TYPE: DNA

ORGANISM: Mus musculus

FEATURE:

NAME/KEY: CDS

LOCATION: (1)...(435)

NAME/KEY: sig_peptide

LOCATION: (1)...(60)

NAME/KEY: mat_peptide

LOCATION: (61)...(435)

US-09-861-294-1

Query Match 100.0%; Score 435; DB 9; Length 435;
Best Local Similarity 100.0%; Pred. No. 6.7e-134;
Matches 435; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 1 ATGGGGGCCCCGCTCAGATTCTTGAGTTCTTGTTGCTCTGTTTCCAGGTACCAAGT 60
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DB 121 CTCACCTTGTGGGCAAGTCAGACATGTTGATTAATCACTTGGCTTCAGAGAAACA 180
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QY 361 GGGACCAAGCTGGAATTAACGGGCTGATGTCGACCACTGATCATCTTCCACCA 420
DB 361 GGGACCAAGCTGGAATTAACGGGCTGATGTCGACCACTGATCATCTTCCACCA 420
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RESULT 2

US-10-367-506-1
Sequence 1, Application US/10367506
Publication No. US20030152575A1
GENERAL INFORMATION:
APPLICANT: Malaya CHATTERJEE
APPLICANT: Kenneth A. FOON
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR TREATING
FILE REFERENCE: 304142000620
CURRENT APPLICATION NUMBER: US/10/367,506
CURRENT FILING DATE: 2003-02-13
PRIOR APPLICATION NUMBER: US/09/861,294
PRIOR FILING DATE: 2001-05-17
PRIOR APPLICATION NUMBER: 60/049,540
PRIOR FILING DATE: 1997-06-13
PRIOR APPLICATION NUMBER: 09/096,244
PRIOR FILING DATE: 1998-06-11
NUMBER OF SEQ ID NOS: 38
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 1
LENGTH: 435
TYPE: DNA
ORGANISM: Mus musculus
FEATURE:
NAME/KEY: CDS
LOCATION: (1)...(435)
FEATURE:
NAME/KEY: sig_peptide
LOCATION: (1)...(60)
FEATURE:
NAME/KEY: mat_peptide
LOCATION: (61)...(435)
US-10-367-506-1

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Best Local Similarity 100.0%; Pred. No. 6,7e-134;
Matches 435; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 ATGGGGGCCCCGCTCAGATTCTTGAGTTCTTGTTGCTCTGTTTCCAGGTACCAAGT 60

DB 1 ATGGGGGCCCCGCTCAGATTCTTGAGTTCTTGTTGCTCTGTTTCCAGGTACCAAGT 60
QY 61 GACATCCAGATGACCCAGTCTTCATCTCTTATCTGCTCTGAGCAAAAGTCACT 120
DB 61 GACATCCAGATGACCCAGTCTTCATCTCTTATCTGCTCTGAGCAAAAGTCACT 120
QY 121 CTCACCTTGTGGGCAAGTCAGACATGTTGATTAATCACTTGGCTTCAGAGAAACA 180
DB 121 CTCACCTTGTGGGCAAGTCAGACATGTTGATTAATCACTTGGCTTCAGAGAAACA 180
QY 181 GATGAACTATTAAACGCTGATCTACGCCACATCCAGTTAGTTGTTGTTCCCAA 240
DB 181 GATGAACTATTAAACGCTGATCTACGCCACATCCAGTTAGTTGTTGTTCCCAA 240
QY 241 AGTTTCAGTGCAGTAGTCTGAGTCAAGTTATCTTCAACATCAGACGCTTGAATCT 300
DB 241 AGTTTCAGTGCAGTAGTCTGAGTCAAGTTATCTTCAACATCAGACGCTTGAATCT 300
QY 301 GAAGATTTTGTAGCCTATTACTGTCTACATATGCTAGTTCTCCGTACAGTTCCGAGG 360
DB 301 GAAGATTTTGTAGCCTATTACTGTCTACATATGCTAGTTCTCCGTACAGTTCCGAGG 360
QY 361 GGGACCAAGCTGGAATTAACGGGCTGATGTCGACCACTGATCATCTTCCACCA 420
DB 361 GGGACCAAGCTGGAATTAACGGGCTGATGTCGACCACTGATCATCTTCCACCA 420
QY 421 TCCAGTAAAGCTTGGG 435
DB 421 TCCAGTAAAGCTTGGG 435

RESULT 3

US-09-924-099-27
Sequence 27, Application US/09924099
Patent No. US20020128450A1
GENERAL INFORMATION:
APPLICANT: NISHIDA, Yoshihiro
APPLICANT: OKURA, Takamori
APPLICANT: TANIMOTO, Tadao
APPLICANT: KURIMOTO, Masashi
TITLE OF INVENTION: PEPTIDE
FILE REFERENCE:
CURRENT APPLICATION NUMBER: US/09/924,099
CURRENT FILING DATE: 2001-08-08
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 09/338,511
PRIOR FILING DATE: EARLIER FILING DATE: 1999-06-23
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: JP 289,044/98
PRIOR FILING DATE: EARLIER FILING DATE: 1998-10-12
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: JP 365,023/98
PRIOR FILING DATE: EARLIER FILING DATE: 1998-12-22
NUMBER OF SEQ ID NOS: 33
SEQ ID NO 27
LENGTH: 407
TYPE: DNA
ORGANISM: Mus musculus
FEATURE:
NAME/KEY: CDS
LOCATION: (1)...(407)
NAME/KEY: sig_peptide
LOCATION: (1)...(60)
US-09-924-099-27

Query Match 88.4%; Score 384.6; DB 9; Length 407;
Best Local Similarity 96.6%; Pred. No. 3.7e-117;
Matches 393; Conservative 0; Mismatches 14; Indels 0; Gaps 0;

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DB 1 ATGGGGGCCCCGCTCAGATTCTTGAGTTCTTGTTGCTCTGTTTCCAGGTACCAAGT 60
QY 61 GACATCCAGATGACCCAGTCTTCATCTCTTATCTGCTCTGAGCAAAAGTCACT 120

GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: December 6, 2004, 13:29:00 ; Search time 15.5705 Seconds
(without alignments)
617.586 Million cell updates/sec

Title: US-08-836-455-2

Perfect score: 740
Sequence: 1 MGAPAOILGFLLLFPGRTRC.....IKRADAAPVTSIRPPSSKLG 145

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 478139 seqs, 66318000 residues

Total number of hits satisfying chosen parameters: 478139

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA:*
1: /cgn2_6/prodata/1/iaa/5A_COMB.pep.*
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3: /cgn2_6/prodata/1/iaa/6A_COMB.pep.*
4: /cgn2_6/prodata/1/iaa/6B_COMB.pep.*
5: /cgn2_6/prodata/1/iaa/PCTUS_COMB.pep.*
6: /cgn2_6/prodata/1/iaa/backfile1.pep.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	740	100.0	145	3	US-09-096-244-2
2	518	70.0	129	3	US-08-943-136-2
3	518	70.0	129	3	US-08-973-518-2
4	507	68.5	243	1	US-08-133-804-6
5	507	68.5	243	1	US-08-461-838-6
6	507	68.5	243	2	US-08-461-886-6
7	507	68.5	243	2	US-08-356-786-4
8	503	68.0	534	2	US-08-356-786-10
9	496	67.0	109	2	US-08-713-939A-74
10	496	67.0	109	3	US-09-036-579-74
11	496	67.0	109	3	US-09-550-374-74
12	496	67.0	109	4	US-09-943-906-74
13	492	66.5	107	3	US-08-483-749A-26
14	483	65.3	138	2	US-08-480-434-63
15	483	65.3	138	2	US-08-053-451B-63
16	479	64.7	148	4	US-09-318-786-25
17	479	64.7	126	1	US-08-157-101A-5
18	479	64.7	287	4	US-09-318-786-37
19	471	63.6	112	4	US-09-627-218B-1
20	471	63.6	142	2	US-08-579-940-2
21	471	63.6	142	3	US-08-838-692-4
22	468	63.2	107	2	US-08-888-366-14
23	468	63.2	107	2	US-08-888-366-20
24	463	62.6	107	2	US-08-888-366-26
25	461	62.3	131	1	US-08-236-520-2
26	461	62.3	131	5	PCT-US95-05262-2
27	455	61.5	109	1	US-07-942-245-1

28	455	61.5	127	4	US-09-647-468-183	Sequence 183, App
29	454	61.4	127	4	US-09-647-468-182	Sequence 182, App
30	451	60.9	127	4	US-09-647-468-180	Sequence 180, App
31	447	60.4	127	4	US-09-647-468-179	Sequence 179, App
32	446	60.3	129	4	US-09-647-468-161	Sequence 161, App
33	445	60.1	127	4	US-09-647-468-181	Sequence 181, App
34	445	60.1	234	4	US-09-740-002-24	Sequence 24, App
35	444	60.0	127	1	US-08-458-516-5	Sequence 5, App
36	442	59.7	109	2	US-08-713-939A-73	Sequence 73, App
37	442	59.7	109	3	US-09-036-579-73	Sequence 73, App
38	442	59.7	109	3	US-09-550-374-73	Sequence 73, App
39	442	59.7	109	4	US-09-943-906-73	Sequence 73, App
40	442	59.7	215	2	US-08-737-129A-8	Sequence 8, App
41	441	59.6	127	1	US-08-137-117D-29	Sequence 29, App
42	441	59.6	127	2	US-08-436-717-29	Sequence 29, App
43	441	59.6	235	2	US-08-812-586-16	Sequence 16, App
44	441	59.6	235	4	US-09-535-832A-17	Sequence 17, App
45	439	59.3	127	4	US-09-647-468-162	Sequence 162, App

ALIGNMENTS

RESULT 1
US-09-096-244-2
Sequence 2, Application US/09096244
Patent No. 6274143
GENERAL INFORMATION:
APPLICANT: Chatterjee, Malaya
TITLE OF INVENTION: METHODS OF DELAYING DEVELOPMENT OF
NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESSES:
ADDRESSER: MORRISON & FORSTER
STREET: 755 PAGE MILL ROAD
CITY: PALO ALTO
STATE: CA
COUNTRY: USA
ZIP: 94304-1018
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: IBM PC compatible
SOFTWARE: Patent Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/096,244
FILING DATE:
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Polizzi, Catherine M.
REGISTRATION NUMBER: 40,130
REFERENCE/DOCKET NUMBER: 30414-20006.00
TELECOMMUNICATION INFORMATION:
TELEPHONE: (650) 813-5600
TELEFAX: (650) 494-0792
TELEX: 706141
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 145 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-096-244-2

Query Match 100.0% ; Score 740 ; DB 3 ; Length 145 ;
Best Local Similarity 100.0% ; Pred. No. 5.6e-63 ;
Matches 145 ; Conservative 0 ; Mismatches 0 ; Indels 0 ; Gaps 0 ;
QY 1 MGAPAOILGFLLLFPGRTRCDIQMTSPSSLSASLQGRVSLTCRASQDIGINLHWLQGP 60
DB 1 MGAPAOILGFLLLFPGRTRCDIQMTSPSSLSASLQGRVSLTCRASQDIGINLHWLQGP 60

QY 61 DGTIKRLIYATSSLSGSGVPRFSGSSGSDYSLTSSLESBDFAVAYCYCLOVASSPYRGG 120

Dd 61 DGTIKRLIYATSSLSGSGVPRFSGSSGSDYSLTSSLESBDFAVAYCYCLOVASSPYRGG 120

OY 121 GTKLEIKRADAAPTVSIFPPSSKTLG 145

Dd 121 GTKLEIKRADAAPTVSIFPPSSKTLG 145

RESULT 2
US-08-943-136-2

Sequence 2, Application US/08943136
Patent No. 6291208
GENERAL INFORMATION:
APPLICANT: Anand, Naveen N
APPLICANT: Barber, Brian H
APPLICANT: Cates, George A
APPLICANT: Caterini, Judith E
APPLICANT: Klein, Michael H
TITLE OF INVENTION: CHIMERIC ANTIBODIES FOR DELIVERY OF
NUMBER OF INVENTION: ANTIGENS TO SELECTED CELLS OF THE IMMUNE SYSTEM
NUMBER OF SEQUENCES: 20
CORRESPONDENCE ADDRESS:
AND NO

Query Match	70.0%;	Score 518;	DB 3;	Length 129;
Best Local Similarity	80.3%;	Pred. No. 6.2e-42;		
Matches 102; Conservative	7;	Mismatches 18;	Indels 0;	Gaps 0;

60 | GGIAGLAAIASSLSLVGPKAPSGSRGGDYSLTISLSSEDFPAAYCYLGASSPTFFGG 120
61 | ||||| : ||||
62 | ||||| : ||||
63 | DGTIRRLVYAASLTLDGVPKRRFGSGSDPILSTISLSEDFPDYCYLGQTNPLIFGA 122

90 | GTKLEIK 127
121 | ||||| :
123 | GTKLEIK 129

RESULT 3
US-08-973-518-2

Sequence 2, Application US/08973518
Patent No. 6328962

GENERAL INFORMATION:

APPLICANT: Arand, Naveen N
APPLICANT: Barber, Brian H
APPLICANT: Cates, George A
APPLICANT: Caterini, Judith E
APPLICANT: Klein, Michel H

TITLE OF INVENTION: CHIMERIC ANTIBODIES FOR DELIVERY OF
TITLE OF INVENTION: ANTIGENS TO SELECTED CELLS OF THE IMMUNE SYSTEM

NUMBER OF SEQUENCES: 20

CORRESPONDENCE ADDRESS:

ADDRESSEE: Sim & McBurney
STREET: 6th Floor, 330 University Avenue
CITY: Toronto

Query Match	70.0%;	Score 518;	DB 3;	Length 129;
Best Local Similarity	80.3%;	Pred. No. 6, 2e-42;		
Matches 102; Conservative	7;	Mismatches 18;	Indels 0;	Gaps 0

QY	121	GTKLEIK	127		:		:	
Db	123	GTKLEIK	129		:		:	
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Db	63	DGTRILVYAASLTLDGVPKRFSGSRGSDPTSLTSLSESDFDADYCLQYTNVPLIFGA	122		:		:	
QY	61	DGIRLRLVIAISLSSGVPKRFSGSRGSDVSLTSLSESDFAAYCLQYASPPYFEGG	120		:		:	
Db	61	DGIRLRLVIAISLSSGVPKRFSGSRGSDVSLTSLSESDFAAYCLQYASPPYFEGG	120		:		:	

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RESULT 4
US-08-133-804-6
; Sequence 6, Application US/08133804
; Patent No. 5534254
;
; GENERAL INFORMATION:
;
; APPLICANT: Huston, James S.
;
; APPLICANT: Oppermann, Hermann
;
; APPLICANT: Houston, L. L.
;
; APPLICANT: Ring, David B.
;
; TITLE OF INVENTION: Biosynthetic Binding Proteins For
;
; TITLE OF INVENTION: Imaging

```


XX 20-DEC-1995; 95US-00575762.
PR 26-JAN-1996; 96US-00591965.
PR 13-DEC-1996; 96US-00766350.
XX
PA (KENT) UNIV KENTUCKY.
XX
PI Chatterjee M, Foon KA, Chatterjee SK;
XX
DR WPI, 1997-341690/31.
DR N-PSDB; AAT85149.
XX
PT Monoclonal anti-idiotypic antibody 11D10 - elicits immune response against
PT human milk fat globule disease associated tumours, especially breast
PT cancer.
XX
PS Claim 9, Page 94; 130pp; English.
XX

CC This polypeptide sequence comprises the light chain variable region (VL)
CC of monoclonal anti-idiotypic antibody 11D10 produced by hybridoma cell
CC line ATCC 12020. 11D10 was obtained by immunising naive mice with WC-10
CC anti-HMG antibody to obtain an anti-idiotypic response. It elicits an
CC immune response against a specific epitope of a high mol.wt. mucin of
CC human milk fat globule (HMG). It induces an immunological response to
CC HMG in mice, rabbits, monkeys and patients with advanced HMG-associated
CC tumours. Pharmaceutical compositions and vaccines comprising 11D10, 11D10
CC polypeptides and/or 11D10 polynucleotides (see also AAT85149-50) are
CC claimed. Also claimed are diagnostic kits and methods of using 11D10,
CC 11D10 polypeptides and/or 11D10 polynucleotides, including methods of
CC treating HMG-associated tumours. 11D10 is also used in a claimed method
CC of palliating HMG-associated disease and in claimed kits to detect or
CC quantify anti-HMG antibody. (Updated on 25-MAR-2003 to correct PR
CC field.)
XX
SQ Sequence 145 AA;

Query Match 100.0%; Score 740; DB 2; Length 145;
Best Local Similarity 100.0%; Pred. No. 3e-48;
Matches 145; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGAPAIILGFLLLFPGRCDIQMTQSPSSLSASLGQRVSLTCRASODIGINLHMLQDEP 60
DB 1 MGAPAIILGFLLLFPGRCDIQMTQSPSSLSASLGQRVSLTCRASODIGINLHMLQDEP 60
QY 61 DGTIKRLIYATSSLSGSGVPKRFSGSGSDYSLTISLSIEDPFAVYCLQYASSPYTFGG 120
DB 61 DGTIKRLIYATSSLSGSGVPKRFSGSGSDYSLTISLSIEDPFAVYCLQYASSPYTFGG 120
QY 121 GTKLEIKRADAAPTVSIFFPSSKLG 145
DB 121 GTKLEIKRADAAPTVSIFFPSSKLG 145

RESULT 2
AAO16292
ID AAO16292 standard; protein; 145 AA.
XX
AC AAO16292;
XX
DT 20-MAR-2003 (first entry)
XX
DE Mouse 11D10 antibody light chain variable region.
XX
KW Mouse; murine; vaccine; tumour; human milk fat globules; HMG;
KW carcinoembryonic antigen; CEA; 11D10; 3H1; HMG-associated tumour;
KW CEA-associated tumour; anti-idiotypic antibody.
XX
OS Mus musculus.
XX
FH Key Location/Qualifiers
FT Peptide 1..20
FT Protein /label="signal_peptide
FT 21..145

/note="Mature murine 11D10 antibody light chain variable
region"

WO200292012-A2.

21-NOV-2002.

17-MAY-2002; 2002WO-US015840.

17-MAY-2001; 2001US-00861294.

(KENT) UNIV KENTUCKY RES FOUND.

Chatterjee M, Foon KA;

WPI; 2003-129216/12.

N-PSDB; AAL51273.

PT Use of anti-idiotypic antibodies for human milk fat globules (HMG) - or
PT carcinoembryonic antigen (CEA)-associated tumor for delaying the
PT development of, or treating a HMG- or CEA-associated tumor (e.g. breast
PT tumor) in humans.
XX

Claim 2; Fig 1; 98pp; English.

CC The invention comprises a method for delaying the development of, or
CC treating a tumor that is associated with human milk fat globules (HMG)
CC or carcinoembryonic antigen (CEA). The method of the invention involves
CC administering an anti-idiotypic antibody for HMG (e.g. 11D10), and an
CC anti-idiotypic antibody for CEA (e.g. 3H1). The method is useful for
CC delaying the development, of or treating HMG/CEA-associated tumours. The
CC present amino acid sequence represents the light chain variable region of
CC the mouse 11D10 anti-idiotypic antibody
XX
SQ Sequence 145 AA;

Query Match 100.0%; Score 740; DB 6; Length 145;
Best Local Similarity 100.0%; Pred. No. 3e-48;
Matches 145; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGAPAIILGFLLLFPGRCDIQMTQSPSSLSASLGQRVSLTCRASODIGINLHMLQDEP 60
DB 1 MGAPAIILGFLLLFPGRCDIQMTQSPSSLSASLGQRVSLTCRASODIGINLHMLQDEP 60
QY 61 DGTIKRLIYATSSLSGSGVPKRFSGSGSDYSLTISLSIEDPFAVYCLQYASSPYTFGG 120
DB 61 DGTIKRLIYATSSLSGSGVPKRFSGSGSDYSLTISLSIEDPFAVYCLQYASSPYTFGG 120
QY 121 GTKLEIKRADAAPTVSIFFPSSKLG 145
DB 121 GTKLEIKRADAAPTVSIFFPSSKLG 145

RESULT 3
AAW87593
ID AAW87593 standard; protein; 145 AA.
XX
AC AAW87593;
XX
DT 16-MAR-1999 (first entry)
XX
DE Antibody 11D10 light chain variable region.
XX
KW Murine; mouse; antibody; light chain; variable region; anti-idiotypic;
KW human milk fat globule; tumour; ovary; lung; pancreas; carcinoma; breast.
XX
OS Mus sp.
XX
FH Key Location/Qualifiers
FT Peptide 1..20
FT Protein /note="signal peptide"
FT 21..999
FT /note="mature protein"

GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: December 6, 2004, 13:38:19 ; Search time 2233.74 Seconds
(without alignments)
7096.283 Million cell updates/sec

Title: US-08-836-455-1
Perfect score: 435
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Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

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Total number of hits satisfying chosen parameters: 65645750

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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2: gb_est2.*
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6: gb_est6.*
7: gb_est7.*
8: gb_est8.*
9: gb_est9.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
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2	362.8	83.4	926	BG962572	BG962572 602829553
3	334	76.8	714	BG963548	BG963548 602831226
4	320.2	73.6	374	BY083003	BY083003 602831003
5	287.8	66.2	827	BI152061	BI152061 602916512
6	287.6	66.1	874	BG518527	BG518527 602578261
7	286.8	65.9	891	BF579422	BF579422 602093833
8	285.2	65.6	626	BF582283	BF582283 602101109
9	285.2	65.6	725	BF580940	BF580940 602100636
10	282.8	65.0	1459	BQ918407	BQ918407 602100636
11	278.8	64.1	762	BF144806	BF144806 601791486
12	278	63.9	901	BQ943305	BQ943305 602099448
13	276.4	63.5	772	BF581992	BF581992 602099448
14	276.4	63.5	830	BI455041	BI455041 603173343
15	275.6	63.4	695	BE284224	BE284224 601099161
16	274.8	63.2	669	BF123422	BF123422 601760623
17	274.8	62.8	708	BI103114	BI103114 602889345
18	273.2	62.8	886	BG756818	BG756818 602710291
19	269.2	61.9	658	CF108834	CF108834 602578277
20	268.8	61.8	685	BG518543	BG518543 602578277
21	266.8	61.3	617	CD689887	CD689887 602578277
22	266.8	61.3	697	CD698986	CD698986 602578277
23	266.8	61.3	698	CD691710	CD691710 602578277
24	266.8	61.3	952	CO579354	CO579354 602578277

25	266.8	61.3	969	BU989279	BU989279 AGENCOURT
26	265.2	61.0	464	BX480430	BX480430 DFR2686E
27	265.2	61.0	547	CD704894	CD704894 EST21421
28	265.2	61.0	764	CB956251	CB956251 AGENCOURT
29	265.2	61.0	1019	BM914405	BM914405 AGENCOURT
30	264.4	60.8	354	BY085718	BY085718 AGENCOURT
31	263.6	60.6	545	CD697196	CD697196 EST13719
32	263.6	60.6	550	CD709576	CD709576 EST26103
33	263.6	60.6	586	CD695617	CD695617 EST12140
34	263.6	60.6	658	CD701345	CD701345 EST17869
35	263.6	60.6	723	CB956143	CB956143 AGENCOURT
36	263.6	60.6	992	BF976253	BF976253 602245130
37	262.8	60.4	851	BI101548	BI101548 602887347
38	262.8	60.4	1038	BG757218	BG757218 602710591
39	262.2	60.3	966	BF578083	BF578083 602094759
40	262	60.2	569	CD706691	CD706691 EST23218
41	262	60.2	616	CD684315	CD684315 EST835 hu
42	262	60.2	666	CD684691	CD684691 EST1211 h
43	262	60.2	837	CB984807	CB984807 AGENCOURT
44	262	60.2	867	BG754732	BG754732 602713301
45	262	60.2	939	BQ705876	BQ705876 AGENCOURT

ALIGNMENTS

RESULT 1
LOCUS BF138788 630 bp mRNA linear EST 24-OCT-2000
DEFINITION 601780387F1 NCI_CGAP_Lu30 Mus musculus cDNA clone IMAGE:4008404 5',
mRNA sequence.

ACCESSION BF138788
VERSION BF138788.1 GI:10977828
KEYWORDS EST.
SOURCE Mus musculus (house mouse)
ORGANISM Mus musculus

REFERENCE
AUTHORS NIH-MGC http://mgs.nci.nih.gov/.
TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL Unpublished (1999)
COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgabbs@mail.nih.gov
Tissue Procurement: Gilbert Smith, Ph.D.
CDNA Library Preparation: Life Technologies, Inc.
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: NCI-CGAP clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: LHAM9242 row: n column: 21
High quality sequence stop: 628.

FEATURES

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/mol_type="mRNA"
/strain="C57BL/6 J"
/db_xref="taxon:10090"
/clone="IMAGE:4008404"
/tissue_type="tumour, metastatic to mammary"
/lab_host="DH10B"
/clone_lib="NCI_CGAP_Lu30"
/note="Organ: lung; Vector: PCMV-SPORE6; Site: 1: NotI;
Site 2: SalI; transgenic model MNT-1, expression driven by
MMTV-LTR enhancer; Cloned unidirectionally. Primer: Oligo
dT. Library constructed by Life Technologies.
Investigator providing samples: Gilbert Smith, NIH"

ORIGIN

Query Match 85.8%; Score 373.2; DB 2; Length 630;
Best local similarity 92.3%; Pred. No. 2e-107;
Matches 333; Conservative 0; Mismatches 33; Indels 0; Gaps 0;

QY 5 GGGCCCTGCTCAGATTCTTGAGTTCTTGTGCTCTTGTTCAGGTACAGATGTGACA 64
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DB 61 TCCGATGATGACCGAGTCTTCATCTCTTATCTGCTCTCGGAGAAAGATCAGTCTCA 120
QY 125 CTGTGCGGCAAGTCAGACATTTGTATTAATTACATTGCTTCAGCAAGAACAGATG 184
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QY 185 GAATCTATTAAGCCTGATCTTACGCCCATCCAGTTAGTGTCTGCTGCCAAAAGT 244
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mRNA sequence.
ACCESSION BG962572
VERSION BG962572.1 GI:14350209
KEYWORDS EST.
SOURCE Mus musculus (house mouse)
ORGANISM Mus musculus
REFERENCE 1 (bases 1 to 926) Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
TITLE NIH-MGC http://mgc.nci.nih.gov/.
JOURNAL National Institutes of Health, Mammalian Gene Collection (MGC)
COMMENT Unpublished (1999)
Contact: Robert Strausberg, Ph.D.
Email: cgapbs-remail.nih.gov
Tissue Procurement: Jeffrey E. Green, M.D.
cDNA Library Preparation: Life Technologies, Inc.
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LNL at:
http://image.llnl.gov
Plate: L1AM10991 row: 1 column: 13
High quality sequence stop: 685.
Location/Qualifiers
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Site: 2; SalI; Cloned unidirectionally. Primer: Oligo dT.
Average insert size 1.6 Kb. Constructed by Life

ORIGIN Technologies. Note: this is a NCI_CGAP Library."
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Best Local Similarity 90.2%; Pred. No. 4,6e-104;
Matches 388; Conservative 0; Mismatches 42; Indels 0; Gaps 0;
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QY 421 TCCAGTAGC 430
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RESULT 3
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DEFINITION 602831226F1 NCI_CGAP_Co24 Mus musculus cDNA clone IMAGE:4985791 5',
mRNA sequence.
ACCESSION BG963548
VERSION BG963548.1 GI:14351185
KEYWORDS EST.
SOURCE Mus musculus (house mouse)
ORGANISM Mus musculus
REFERENCE 1 (bases 1 to 714) Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
TITLE NIH-MGC http://mgc.nci.nih.gov/.
JOURNAL National Institutes of Health, Mammalian Gene Collection (MGC)
COMMENT Unpublished (1999)
Contact: Robert Strausberg, Ph.D.
Email: cgapbs-remail.nih.gov
Tissue Procurement: Jeffrey E. Green, M.D.
cDNA Library Preparation: Life Technologies, Inc.
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LNL at:
http://image.llnl.gov
Plate: L1AM10994 row: C column: 08
High quality sequence stop: 712.
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/organism="Mus musculus"
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/strain="FVB/N"
/db_xref="taxon:10090"

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: December 6, 2004, 13:38:54 ; Search time 63.1138 Seconds
(without alignments)
4898.976 Million cell updates/sec

Title: US-08-836-455-1

Perfect score: 435
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Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 824507 seqs, 355394441 residues

Total number of hits satisfying chosen parameters: 1649014

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	* Query Match	Length	DB ID	Description
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2	323.4	74.3	387	3	US-08-943-136-1 Sequence 1, Appl1
3	323.4	74.3	387	3	US-08-973-518-1 Sequence 1, Appl1
4	309.4	71.1	732	2	US-08-356-786-3 Sequence 3, Appl1
5	309.4	71.1	739	1	US-08-133-804-5 Sequence 5, Appl1
6	309.4	71.1	739	1	US-08-461-838-5 Sequence 5, Appl1
7	309.4	71.1	739	2	US-08-461-838-5 Sequence 5, Appl1
8	305.2	70.2	1605	2	US-08-356-786-9 Sequence 9, Appl1
9	300.2	69.0	321	3	US-08-483-749A-25 Sequence 25, Appl1
10	292.2	67.2	321	2	US-08-888-366-13 Sequence 13, Appl1
11	292.2	67.2	321	2	US-08-888-366-19 Sequence 19, Appl1
12	291.2	66.9	321	2	US-08-888-366-25 Sequence 25, Appl1
13	284.4	65.4	456	4	US-09-318-786-26 Sequence 26, Appl1
14	282.4	64.9	867	4	US-09-318-786-38 Sequence 38, Appl1
15	267.6	61.5	447	2	US-08-579-940-1 Sequence 1, Appl1
16	267.6	61.5	447	2	US-08-838-692-3 Sequence 3, Appl1
17	266.6	61.0	321	3	US-08-838-749A-27 Sequence 27, Appl1
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21	263.2	60.5	276	3	US-08-373-146-52 Sequence 52, Appl1
22	262	60.2	439	3	US-09-042-353-360 Sequence 360, App
23	262	60.2	439	3	US-08-758-417A-208 Sequence 208, App
24	261.6	60.1	276	2	US-08-273-146-44 Sequence 44, Appl1
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26	258.8	59.5	751	5	PCT-US94-07659-3 Sequence 393, App
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37	248	57.0	408	1	US-08-408-133-5	Sequence 5, Appl1
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ALIGNMENTS

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; Sequence 1, Application US/09096244
; Patent No. 6274143
; GENERAL INFORMATION:
; APPLICANT: Chatterjee, Malaya
; TITLE OF INVENTION: METHODS OF DELAYING DEVELOPMENT OF
; TITLE OF INVENTION: HMGs-ASSOCIATED TUMORS USING ANTI-IDIOTYPE ANTIBODY 11D10
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORRISON & FORSTER
; STREET: 755 PAGE MILL ROAD
; CITY: PALO ALTO
; STATE: CA
; COUNTRY: USA
; ZIP: 94304-1018
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: Patent in Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/096,244
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Polizzi, Catherine M.
; REGISTRATION NUMBER: 40,130
; REFERENCE/DOCKET NUMBER: 30414-20006.00
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (650) 813-5600
; TELEFAX: (650) 494-0792
; TELEX: 706141
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 435 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..435
; NAME/KEY: mat_peptide
; LOCATION: 61
; US-09-096-244-1
Query Match 100.0%; Score 435; DB 3; Length 435;

Best Local Similarity 100.0%; Pred. No. 7.8e-132;
Matches 435; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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RESULT 2

US-08-943-136-1
Sequence 1, Application US/08943136

Patent No. 6291208

GENERAL INFORMATION:

APPLICANT: Anand, Naveen N
APPLICANT: Barber, Brian H
APPLICANT: Cates, George A
APPLICANT: Caterini, Judith E
APPLICANT: Klein, Michel H
TITLE OF INVENTION: CHIMERIC ANTIBODIES FOR DELIVERY OF
NUMBER OF SEQUENCES: 20
CORRESPONDENCE ADDRESS:
ADDRESSEE: Sim & McBurney
STREET: 6th Floor, 330 University Avenue
CITY: Toronto
STATE: Ontario
COUNTRY: Canada
ZIP: M5G 1R7

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/943.136

FILING DATE:

CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/483,576
FILING DATE: 07-JUNE-1995

CLASSIFICATION: 536
ATTORNEY/AGENT INFORMATION:
NAME: Stewart, Michael I
REGISTRATION NUMBER: 24,973
REFERENCE/DOCKET NUMBER: 1038-733

TELECOMMUNICATION INFORMATION:

TELEPHONE: (416) 595-1155

TELEFAX: (416) 595-1163

INFORMATION FOR SEQ ID NO: 1:

SEQUENCE CHARACTERISTICS:

LENGTH: 387 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

Query Match
Best Local Similarity 90.6%; Pred. No. 1.5e-95;
Matches 345; Conservative 0; Mismatches 36; Indels 0; Gaps 0;

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RESULT 3

US-08-973-518-1

Sequence 1, Application US/08973518

Patent No. 6328962

GENERAL INFORMATION:

APPLICANT: Anand, Naveen N
APPLICANT: Barber, Brian H
APPLICANT: Cates, George A
APPLICANT: Caterini, Judith E
APPLICANT: Klein, Michel H
TITLE OF INVENTION: CHIMERIC ANTIBODIES FOR DELIVERY OF
NUMBER OF SEQUENCES: 20
CORRESPONDENCE ADDRESS:
ADDRESSEE: Sim & McBurney
STREET: 6th Floor, 330 University Avenue
CITY: Toronto
STATE: Ontario
COUNTRY: Canada
ZIP: M5G 1R7

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/973,518
FILING DATE: 07-APR-1998

CLASSIFICATION: 424

XX This cDNA sequence encodes the light chain variable region VL (AA085149)
 CC of monoclonal anti-idiotypic antibody 11D10 produced by hybridoma cell
 CC line ATCC 12020. 11D10 was obtained by immunising naive mice with MC-10
 CC anti-HMFG antibody to obtain an anti-idiotypic response. It elicits an
 CC immune response against a specific epitope of a high mol.wt. mucin of
 CC human milk fat globule (HMFG). It induces an immunological response to
 CC HMFG in mice, rabbits, monkeys and patients with advanced HMFG-associated
 CC tumours. Pharmaceutical compositions and vaccines comprising 11D10, 11D10
 CC polypeptides and/or 11D10 polynucleotides are claimed. Also claimed are
 CC diagnostic kits and methods of using 11D10, 11D10 polypeptides and/or
 CC 11D10 polynucleotides, including methods of treating HMFG-associated
 CC tumours. (Updated on 25-MAR-2003 to correct PR field.)
 XX

SQ Sequence 435 BP; 100 A; 111 C; 102 G; 122 T; 0 U; 0 Other;

Query Match Best Local Similarity 100.0%; Score 435; DB 2; Length 435;

Matches 435; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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D 1 ATGGGGGCCCCCTGCTCAGATTCCTTGGGTTCTTGTGCTCTGTTTCCAGGTACCAATGT 60
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D 61 GACATCCAGATGACCCAGTCTCCATCCTCTTAATGCTCTCTGGGACAAAGATCAGT 120
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D 301 GAAGATTTTGTAGCTTATTAAGTCTTCAATTAATGCTTCCGTCACACCTTCCGAGGG 360
QY 361 GGGACCAAGCTGGAATAAAGCGGCTGATGCTGACCAACTGATTCATCTTCCACCA 420
D 361 GGGACCAAGCTGGAATAAAGCGGCTGATGCTGACCAACTGATTCATCTTCCACCA 420
QY 421 TCCAGTAAGCTTGGG 435
D 421 TCCAGTAAGCTTGGG 435

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RESULT 2

AA083772

ID AA083772 standard; cDNA; 435 BP.

AC AA083772;

XX 16-MAR-1999 (first entry)

XX Antibody 11D10 light chain variable region coding sequence.

KW Murine; mouse; antibody; light chain; variable region; anti-idiotypic; ss;
 XX human milk fat globule; tumour; ovary; lung; pancreas; carcinoma; breast.
 OS Mus sp.

XX Key Location/Qualifiers

FT CDS

1..435

/tag= a

FT /product= "antibody 11D10 light chain variable region"
 FT /transl_except= (pos:163..165, aa:Thr)

FT /note= "no stop codon is given at the 3' end of the sequence"

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/tag= b

FT mat_peptide

61..435

/tag= c

XX W09856419-A1.

XX 17-DEC-1998.

XX 12-JUN-1998; 98WO-US012250.

XX 13-JUN-1997; 97US-0049540P.

XX 11-JUN-1998; 98US-00096244.

XX (KENT) UNIV KENTUCKY RES FOUND.

XX Chatterjee M, Foon KA;

XX WPI; 1999-060029/05.

XX P-PSDB; AA087593.

XX Delaying development of, or treating, HMFG-associated tumours - using anti-idiotypic antibody 11D10 raised against antibodies to human milk fat globule protein.

XX Disclosure; Fig 1; 54pp; English.

This sequence represents the coding sequence for the murine antibody 11D10 light chain variable region. This anti-idiotypic antibody is used to delay the development of, or treat, a human milk fat globule (HMFG) associated tumour in an individual having low tumour burden. The antibody 11D10 is used to prevent the recurrence of HMFG-associated tumours e.g. ovarian, non-small cell lung and pancreatic carcinoma, especially for treating breast tumours

SQ Sequence 435 BP; 100 A; 111 C; 102 G; 122 T; 0 U; 0 Other;

Query Match Best Local Similarity 100.0%; Score 435; DB 2; Length 435;

Matches 435; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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D 61 GACATCCAGATGACCCAGTCTCCATCCTTAATGCTCTCTGGGACAAAGATCAGT 120
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D 241 AGGTTCAAGTGGCGATGAGTGTGGGTCAATTAATCTTCAACATCCAGACCTTGAAGTCT 300
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QY 361 GGGACCAAGCTGGAATAAAGCGGCTGATGCTGACCAACTGATTCATCTTCCACCA 420
D 361 GGGACCAAGCTGGAATAAAGCGGCTGATGCTGACCAACTGATTCATCTTCCACCA 420
QY 421 TCCAGTAAGCTTGGG 435
D 421 TCCAGTAAGCTTGGG 435

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GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

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8980.833 Million cell updates/sec

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Perfect score: 435
Sequence: 1 ATGGGGGCCCCCTGCTCAGAT.....CACCATCCAGTAAGCTTGGG 435

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 4526729 seqs, 23644849745 residues

Total number of hits satisfying chosen parameters: 9053458

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

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5: gb_ov: *
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7: gb_ph: *
8: gb_pl: *
9: gb_pr: *
10: gb_ro: *
11: gb_sts: *
12: gb_sv: *
13: gb_un: *
14: gb_vl: *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	435	100.0	435	6	AR164505 Sequence
2	435	100.0	435	6	BD085737 Methods O
3	384.6	88.4	407	6	ES4981 Peptide. 1/
4	379.4	87.2	381	10	AF124721 Mus muscu
5	361.6	83.1	384	10	AB017434 Mus muscu
6	361.6	83.1	390	10	MUSIKCC L41880 Mus muscu
7	352.2	81.0	381	10	AF045508 Mus muscu
8	349.8	80.2	381	10	AF045495 Mus muscu
9	345.8	79.5	381	10	AF045510 Mus muscu
10	332	76.3	380	10	MMIGVJ1 X02177 M. musculus
11	327.2	75.2	381	10	MMIGVJ2 X02178 M. musculus
12	325.4	74.8	383	10	MUSIGKMA M12191 Mouse Ig ac
13	323.8	74.4	405	10	AB016620 Mus muscu
14	323.4	74.3	387	6	AR169918 Sequence
15	323.4	74.3	387	6	AR165719 Sequence
16	317.2	72.9	354	10	AB089681 Mus muscu
17	316	72.6	684	10	AB089681 Mus muscu
18	314.4	72.3	685	10	MMIGK7 V00808 Part of the
19	311.6	71.6	348	10	MMVJIG X54755 Mouse reatr

20	310.8	71.4	804	6	CQ768809	CQ768809 Sequence
21	310.8	71.4	804	6	CO802043	CO802043 Sequence
22	309.8	71.2	321	10	AR163749	AR163749 Mus muscu
23	309.4	71.1	739	6	AR007981	AR007981 Sequence
24	309.4	71.1	739	6	AR058996	AR058996 Sequence
25	309.4	71.1	739	6	123446	Sequence 5
26	308.6	70.9	324	6	AX722008	Sequence
27	308.4	70.9	729	6	ES4976	ES4976 Peptide. 1/
28	307.8	70.8	359	10	AY050275	Mus muscu
29	307.6	70.7	324	10	MUSK	L48667 Mus muscu
30	307.4	70.7	711	6	ES4975	ES4975 Peptide. 1/
31	306.4	70.4	324	6	ES4967	ES4967 Peptide. 1/
32	305.4	70.2	328	10	MMU55591	Mus muscu
33	301.4	69.3	756	6	AX256284	Sequence
34	301.4	69.3	771	6	AX256296	Sequence
35	301.4	69.3	1497	6	AX256302	Sequence
36	300.6	69.1	324	6	103643	Sequence 4
37	300.6	69.1	324	6	107835	Sequence 4
38	300.2	69.0	345	10	AY605279	Mus muscu
39	299	68.7	323	10	AY229938	Mus muscu
40	298.6	68.6	321	10	MUSIGKRA3	M59920 Mouse IG ge
41	298.4	68.6	348	10	AY245603	Mus muscu
42	297.2	68.3	1019	10	BC027418	Mus muscu
43	296.2	68.1	413	10	MUSIGKCLN	M20832 Mouse Igm
44	295.6	68.0	972	10	AF466770	Mus muscu
45	293.6	67.5	364	10	AY208321	Mus muscu

ALIGNMENTS

RESULT 1	AR164505	Sequence 1 from patent US 6274143.	435 bp	DNA	linear	PAT 17-OCT-2001
LOCUS	AR164505					
DEFINITION	Sequence 1 from patent US 6274143.					
ACCESSION	AR164505					
VERSION	AR164505.1	GI:16237555				
KEYWORDS						
SOURCE	Unknown.					
ORGANISM	Unknown.					
REFERENCE	1 (bases 1 to 435)					
AUTHORS	Charterjee, M. and Poon, K. A.					
TITLE	Methods of delaying development of HMG-associated tumors using anti-idiotypic antibody 11D10					
JOURNAL	Patent: US 6274143-A 1 14-AUG-2001;					
FEATURES	Location/Qualifiers					
source	1..435					
ORIGIN	1..435					
Query Match	100.0%; Score 435; DB 6; Length 435;					
Best Local Similarity	100.0%; Pred. No. 1.9e-120;					
Matches	435; Conservative 0; Mismatches 0; Indels 0; Gaps 0;					
QY	1 ATGGGGGCCCCCTGCTCAGATCTTGGGTTCTTGTCTCTTGTCCAGGTACCAAGTGT 60					
DB	1 ATGGGGGCCCCCTGCTCAGATCTTGGGTTCTTGTCTCTTGTCCAGGTACCAAGTGT 60					
QY	61 GACATCCAGTATGACCCAGTCTCATCTCTTATCTGCGCTCTGAGGACAAAGTCACT 120					
DB	61 GACATCCAGTATGACCCAGTCTCATCTCTTATCTGCGCTCTGAGGACAAAGTCACT 120					
QY	121 CTCACCTTTCGGGCAATGACGACATTTGATTAATTAATTAATTAATTAATTAATTA 180					
DB	121 CTCACCTTTCGGGCAATGACGACATTTGATTAATTAATTAATTAATTAATTAATTA 180					
QY	181 GATGAACCTATTAAAGCCTGATCTACGCCACATCCAGTTAGGTTCTGTGTCCTCCAA 240					
DB	181 GATGAACCTATTAAAGCCTGATCTACGCCACATCCAGTTAGGTTCTGTGTCCTCCAA 240					
QY	241 AGGTTCAGTGGCAGTATGAGTCTGGGTCAAGTTATCTCTACCATCAGCAGCCTTAGTCT 300					

Db 241 AGGTTGAGTGGAGTAGGTCTGGGTGAGATTATCTCTACCATCAGACAGCTTGAGTCT 300
QY 301 GAAGATTTTGTACCTTATCTGTCTCAATATAGTATGTTCTCCGACACGTTGGAGGG 360
Db 301 GAAGATTTTGTACCTTATCTGTCTCAATATAGTATGTTCTCCGACACGTTGGAGGG 360
QY 361 GGGACCAAGCTGGAATATAACGGGCTGATGCTGCACCACTGATCCATCTTCCACCA 420
Db 361 GGGACCAAGCTGGAATATAACGGGCTGATGCTGCACCACTGATCCATCTTCCACCA 420
QY 421 TCCAGTAAGCTTGGG 435
Db 421 TCCAGTAAGCTTGGG 435

RESULT 2
LOCUS BD085737 435 bp DNA linear PAT 27-AUG-2002
DEFINITION Methods of delaying development of HMFg-associated tumors using
anti-idiotypic antibody 11D10.
ACCESSION BD085737
VERSION BD085737.1 GI:22631347
KEYWORDS JP 2001523269-A/1.
SOURCE unclassified
ORGANISM unclassified.
REFERENCE 1 (bases 1 to 435)
AUTHORS Chatterjee M. and Poon, K.A.
TITLES Methods of delaying development of HMFg-associated tumors using
anti-idiotypic antibody 11D10
JOURNAL Patent: JP 2001523269-A 1 20-NOV-2001;
THE UNIVERSITY OF KENTUCKY RESEARCH FOUNDATION
COMMENT OS JP 2001523269-A/1
PN 20-NOV-2001 JP 1999503252
PF 12-JUN-1998 JP 049540,11-JUN-1998 US 09/096244 PI
PR 13-JUN-1997 US 60/049540,11-JUN-1998 US 09/096244 PI
MALAYA CHATTERJEE, KENNETH A POON
PC A61K39/395,A61K39/39//C07K16/42
CC Strandedness: Single;
CC Topology: Linear;
CC Methods of delaying development of HMFg-associated tumors CC
using
CC anti-idiotypic antibody 11D10
FH Key Location/Qualifiers
FT CDS 1..435
FT mat_peptide 61..435
FEATURES Location/Qualifiers
source 1..435
/organism="unclassified"
/mol_type="genomic DNA"
/db_xref="taxon:32644"

ORIGIN
Query Match 100.0%; Score 435; DB 6; Length 435;
Best Local Similarity 100.0%; Pred. No. 1,9e-120;
Matches 435; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATGGGGGCCCCCTGCTCAGATTCTTGGGTTCTTGTGCTTCTTCCAGATCCAGATGT 60
Db 1 ATGGGGGCCCCCTGCTCAGATTCTTGGGTTCTTGTGCTTCTTCCAGATCCAGATGT 60
QY 61 GACATCCAGATGACCCAGTCTCCATCTCTATCTGCTCTCTGGAGCAAAAGATCAGT 120
Db 61 GACATCCAGATGACCCAGTCTCCATCTCTATCTGCTCTCTGGAGCAAAAGATCAGT 120
QY 121 CTCACCTTGTGGGGCAAGTCAGACACTTGGATTAACCTTACATTGGCTTCAGAGAACCA 180
Db 121 CTCACCTTGTGGGGCAAGTCAGACACTTGGATTAACCTTACATTGGCTTCAGAGAACCA 180
QY 181 GATGGAACATATTAACCGCTGATCTACGCCACATCCATTAGGTTCTGAGTCCCAAA 240

Db 181 GATGGAACATATTAACCGCTGATCTACGCCACATCCATTAGGTTCTGAGTCCCAAA 240
QY 241 AGGTTGAGTGGAGTAGGTCTGGGTGAGATTATCTCTACCATCAGACAGCTTGAGTCT 300
Db 241 AGGTTGAGTGGAGTAGGTCTGGGTGAGATTATCTCTACCATCAGACAGCTTGAGTCT 300
QY 301 GAAGATTTTGTACCTTATCTGTCTCAATATAGTATGTTCTCCGACACGTTGGAGGG 360
Db 301 GAAGATTTTGTACCTTATCTGTCTCAATATAGTATGTTCTCCGACACGTTGGAGGG 360
QY 361 GGGACCAAGCTGGAATATAACGGGCTGATGCTGCACCACTGATCCATCTTCCACCA 420
Db 361 GGGACCAAGCTGGAATATAACGGGCTGATGCTGCACCACTGATCCATCTTCCACCA 420
QY 421 TCCAGTAAGCTTGGG 435
Db 421 TCCAGTAAGCTTGGG 435

RESULT 3
LOCUS E54981 407 bp DNA linear PAT 31-JAN-2002
DEFINITION Peptide.
ACCESSION E54981
VERSION E54981.1 GI:18629719
KEYWORDS JP 2000236884-A/15.
SOURCE Mus musculus (house mouse)
ORGANISM Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
REFERENCE 1 (bases 1 to 407)
AUTHORS Nishida, T., Okura, T., Tanimoto, T. and Kurimoto, M.
TITLES Peptide
JOURNAL Patent: JP 2000236884-A 15 05-SEP-2000;
HAYASHIBARA BIOCHEM LAB INC
COMMENT OS Mus musculus (mouse)
PN 2000236884-A/15
PD 05-SEP-2000
PF 24-JUN-1999 JP 1999177846
PR PI TAKEHIRO NISHIDA, TAKANORI OKURA, TADAO TANIMOTO, PI MASASHI
KURIMOTO
PC C12N15/09,A61K31/00,A61K39/395,A61K48/00,C07K16/24,C12P21/08,
PC C12N15/00
CC
FH Key Location/Qualifiers
FT CDS (1)..(407)
FT sig_peptide (1)..(60).
FEATURES Location/Qualifiers
source 1..407
/organism="Mus musculus"
/mol_type="genomic DNA"
/db_xref="taxon:10090"

ORIGIN
Query Match 88.4%; Score 384.6; DB 6; Length 407;
Best Local Similarity 96.6%; Pred. No. 3.6e-105;
Matches 393; Conservative 0; Mismatches 14; Indels 0; Gaps 0;

QY 1 ATGGGGGCCCCCTGCTCAGATTCTTGGGTTCTTGTGCTTCTTCCAGATCCAGATGT 60
Db 1 ATGGGGGCCCCCTGCTCAGATTCTTGGGTTCTTGTGCTTCTTCCAGATCCAGATGT 60
QY 61 GACATCCAGATGACCCAGTCTCCATCTCTTATCTGCTCTCTGGAGCAAAAGATCAGT 120
Db 61 GACATCCAGATGACCCAGTCTCCATCTCTTATCTGCTCTCTGGAGCAAAAGATCAGT 120
QY 121 CTCACCTTGTGGGGCAAGTCAGACACTTGGATTAACCTTACATTGGCTTCAGAGAACCA 180
Db 121 CTCACCTTGTGGGGCAAGTCAGACACTTGGATTAACCTTACATTGGCTTCAGAGAACCA 180
QY 181 GATGGAACATATTAACCGCTGATCTACGCCACATCCATTAGGTTCTGAGTCCCAAA 240